THETIMES Higher Education

DES calls for regional in-service machinery

hy implifit juild Regional machinery to coordinate inservice training is negeoriv needed, soys the Department of Education and Scienco in its back-ground paper for the great debate. The paper says that there is a risk of intraspection and isolation in school-basid troining. This and other forms of inservice troining the school there to be to draw of Education and Scienco in its back-grand paper for the great debute. The paper says that there is a risk of intraspecting and isolation in school-basid treining. This and mher forms of in-service troining should therefure be able to draw on support from nulversilles, lustitutes of higher erneation, teachers' centres, subject associations and

contrest, subject associations and commerve. The threa and four-year courses give little coungly time for the acquire a goad anderstanding " of a countret is a pressing need for in living and of the circumstances in there is a pressing need for in living and of the circumstances in which pupils will spend their working four four?". nduction and subsequent in-service

induction and subsequent in-service training. For thus who take a une-year postgradoate cortificme of edu-cation course the need is even nore urgent. In-service training is also vital to keep more experianced teachers op in thre. Here, the poper soggests, schanl-hased trabing has an imput-ant part in glay "sfuce h takes into-sources and constraints of a schoud". The paper voices concern that "the mutually peoffulile parture align whit schnels that the training

nut many teachers start their carge having little knowledge of the reali-ties of daily life and of Indusity and commerre.

NELP building to restart as cleaners end picket

As cleaners end picket. Cleaning staff at North East Looding Tributeclinic have called off their ing is likely to restain a surface in the outdown ing is likely to restain a surface build. The cleaners, win two strike action over the ullegedly dangorous level off esterna duet in the annexe, brough ull teaching to a built. Stat-dens to the school of Independent and MSc prugramme in educations with of cataligned with the college's fashion and MSc prugramme in educations with briefied since Soptorther may much and locel autholity representatives to full the cleaners agreed to and locel autholity representatives to fill the pickut as a that mutha and clean the cleaners agreed to and locel autholity representatives to fill they bolong, is to much a trans-to which they bolong, is to much and the trans-branged clean be annexed by the Trans-branged clean be anney agreed to and clean a 200 students have here this by the cleaners agreed to and clean a 200 students have here the be annexed before it is such on the cleaners agreed to be they bolong, is to much the student and the bear anney agreed to and clean be annexed before it is such the damers agreed to be anney the anney agreed to and clean be annexed before it is and clean be annexed before it is and clean a 200 students have here thill by the cleaners action the behaviour and problems from nearby pluistow, rmed en eductioned problems from nearby pluistow, rmed en eductioned problems from nearby pluistow, rmed en enductioned problems from nearby pluistow. The due holed

ILEA clash looms over poly audit

A confrontation between the Inner London Education Authority and at lenst one of its polytechnics seems likely over its right to oudly their maks.

At a meeting the directors and Mrs M. J. Reas, chairman of the ILFA further and chairman at the threa untruer and higher education subcommittee, Itr Culin Adamson, director of the Pulyrechnic of Central London, made cherr bis opposition to the otidit. His cullengnes, however, agreed with the culit in principlo bar out with the anothern principlo but not with the propased peripatetic auditurs.

tic aufliturs. In parting the nodi scheme be-fore the education committee this week. Mrs Roes amounced what must landan directors see as a concession to protect pulytechnic autonamy. She sold there would be further discussion with directors an the mediad of the could. The ondi-tors will be haved at the individual polytechnics, seconded fram the Grouter Londan Cuuncil staff and working Inside the pulytechnics alangshe their own accoming ataff. This continential

alongside their own accomming attri-This contromulse is likely to satisfy the directors of Thumes, Chy uf Lonibui and North London Pely-technics and, it is understand, may lead Mr Vivien Poreiro Memiazo, director of the Pulytechnic of the Such Bank, to drup his opposition. At a meeting lost week he described the ILEA as "misguided and igno-cupt"

runt", Dr Adomson has criticized the authority fot its pulicy on inversos students and attempt to control polytechnic spiending through the audit. He is understood to have threatened to bar the ILEA audi-turs from his polytechnic.



Birnett Teinneits for Melonal Association of the of Wirrait Metropolitan Diatrice of Wirrait Metropolitan Distrument Di

Liverpool chemists close to total enzyme synthesis

A significant scientific achievement is within the reach of a team of Liverpuol University chemists: intal synthasis af an anti-hocteriol enzyme colled lysazyme, which is more than twice the size of any protein molecole previously synthe-sized. Professor Genrge Kenner, Royal Sneiuty Research Professor at Liver-puol, announced an a Chemical Snei

sized, Professor Genrge Kenner, Royal Sneiuty Research Professor at Liver-puol, announced as a Chemical Snei-Sociatty Research Professor at Direct and announced in a Chemical Sociaty Research groups. In solution with full use of project the sequence of 129 mining acids that make up a lysozyme molecule. They must now remove oil the "protect-ing grunps" attuched in scrutive parts of the molecule us it was built up, and parify—and hopefully cryotallize—their matorial. These lest stages or very tricky, invulving new methods of chroman ingraphic separation, but Professor Kenner expects to complete them soccessfully. The biggest orificial protein while the molecule that of insulin, the biggest orificial protein claims. Crystalilization of pure lysozyme.

UEA warned of 30 per cent cuts if staff left untouched

If ctoft budgets at the University of Bust Anglia ore left untouched, non-ataff budgets will hove to be reduced by 30 per cent in 1977/78, the university's resources committee has predicted.

his predicted. It is discussion document nn esti-matus, expenditure and savings, glungd at otiouluting discussion of. solutions to the noivaraity's prob-ionis, the committee estimates rhm thu 4 per cent cut in the university's incume in 1977-78 will in practice mean a dolicit of £400,000 or 5.7 per-cent on this your's planned spend-ing

Wuges and solarles eccount for 78 per cent of expenditore, it says, fi connot be gooranteed that thare will connot be georanteed that there will be a 6 per cent wastage of stoff, end even if there was, the posts con-cerned might be crucial to tha ron-ning of the university.

"And yet we see little point in incking naly to nun-steff Costs to

Universities better off

continued from page 1

And the second of the second of



Public sector 'no change' as **Oakes** begins

by Indiah Judd and David Walker

The Gavernment has issued a paper for the Oakas Committee's first meeting this work which seems ro rule on any sub-tantial chaoges in the way the public sector of higher education is run.

The paper says the binnry sys-lens will remain, with important cansequences for the group's work.

and requirements for qualified mun-power. One result of this was that the system of management should not lother higher education from for-ther education "so that there is scope for staff and buildings to be transferred from one to the ather to meet changed circumstances." Another was the need of institu-tions and staff to be adoptedle to change. "The latter's monagement in regard to tonure, premature re-tirement, radundoncy, retrolning, safequarding ond relepiopment will need to respect this." The pupper most that the local subority, role. In 'higher education will ramain and there will need in be coordination with the universi-ties, Relations between 'caotrul and local gaveroment. Including finance, will also ramain as they are.

The committee says the just couse, the university's account of expacted to bulance this year, si-must but be misled into the rhot everything is ell right. The university would be seriously one balance next year unless terms action was tokan in the east-mouths. will also rangent. Including finance, will also rangent as they are. To begin with, the group shanld concentrate on the present errange-erents for financing, higher educe-tion, the relationship betwaee the comborides and the institution and the respective responsibilities of southerities, regionsi and national bodies.

uction was tokan in the deriva-"By taking appropriate and guickly the university will get solf some chonce to make and ransonably plane entry into 1977-78; some chase choose priorities rather that entirely dependent on making ings' through fortnitous, vacuue end resignations; end some chose to plan the near future instant being, dictared to by the need make immediato end unsetur savings".

It should also focus eitention on the problems of the next 10 to 15 years, bearing in mind that higher education nombers are unlikaly to increase much oftar the aerfy 1980s and may fail towards 1990. "Tem-porary expediants will be needed well, pressure on student plocos diminishes and en easter fluanicial situation Onablos better arrange-ments to bo mada". Plaoning, suve the paper, will heve to be for rationalisation rather than develop-ment. Protest students change minds

on ceremony

As a possible aim the committee should ity to make the onst cost-effectives provision within the avail-should ity to make the onst cost-effectives provision within the avail-she resources, to meet the demand from underused facilities for sci-enca and aschoology ft warns that the mangioniant system must be tosponsible for a considered willow, declation as to what extent in bally in expectation of future. Semand, or diverted to other usas "-mangement System is the lack of accounties."

The problem of the committee is the problem of the committee is the trainer that at a the account the trainer that at the provening offes to sovarning bodies, governing)

Authorities' bid to tighten grip threatens poly autonomy

by Sue Reid

Local authorities are making a new and determined intempt to increase greatly their control over the teach-ing and monteaching staff establishments in palytochnics and drostically weaken the hand of governing

badies. The contracersial mave, which is threatoning the autonomy of the colleges, faces vigorous opposition from polyachnic staff. Bot in the past month at least five nothorities have taken action designed to cortail the power and responsibilities of governing bodies of the colleges they fund. Haringey, llarnet and Enfleld, which juintly control Middlesex Polytechnic, have submitted a revised draft of the college's instruments and orticles of government to the Department of Edecation and Science which,

The oniversities were less adapt-able when higher education nom-bers were relatively stable while the koy characteristic of public scoto the Department of Education and Science which, if approved, will circle the polytechnic's control of staff the institutions was that of meeting ueeds expressed by student domand and requirements for qualified mun-

numbers and grades. The orove, expected to open the flondgutes for simi-lar proposels, the won the backing of Clereland aetharity, which funds Teesside Polytechnic. It has uffered to join representatives of the three Landon authorities to join representatives of the three Landon authorities in sending a delegation to the DE5 to press for more local government power in polytechnic administration. A document outlining methods of bringing the stoff-log establishment at Newcostle Polytechnic more firmly under local authority control has been drawn up by Newcastle City Council. It has elready been received by the outhority'o education committee and will be discussed by the polytechnic econcil next week. At Kingston discussions are also under way between the authority and the polytechnic ebout the control of the non-tooching staff establishment. Last Docomber the annuel genoral moeting of the Association of Metropolition Authorities voted in favour attention and anticities control over polytechnic staff. The association, whose constituent authorities

stuff. The association, whose constituent authorities, fund 18 of the 30 autrephiles in Engloyd and Wales, pussed to motion, proposed by Hatingey and secondad by the innor London Education Authority, which

stated: "Those local outharities which maintain pulytechnics must have direct coutrul over the atoff of such establishmenta in order property to discharga, their full finencial and athar requestibilities." their full financial and athar reasonabbilities." The rovised druft of Middlesox Polytechnic's erticles

of government allows for the joint aducation com-mittee, tousio up of members of the Enflaid, Bornet and Haringey authoritics, to ussume full control of the numbers emf gradas of teaching and non-leaching atoff, a reaponsibility currently in the hunds of the gurerning ludy. The droft, made necessary because of recom college

unergors with the polytechnic end the thus since the uriginel instruments uni orticles were draws up, also. reduces academic and student representation gnverning body.

gnverning body. It is expacted in provide a last case. The instruments of must of Britulu's polytechnics are aligned with a DES model aliawing maximum outcommy, and the department may not be a willing porticipant is plans to weaken the role of governing bodias. Mr Gordon Onkee, Minister of State ovorseeing higher education, free already refused to meet the deputation from Horingey, Enfield, Bornet and Cleveland but talks are going on at officer level. A DES spokesuon abit this weak : "We are now in the process of consultation." But he addad : "In general the deputtment beliaves that the powers of governing bodies chould not be reduced." Governora of Inddersfield Polytechnic will oppeel

Governora of Ifuddersfield Polytecholc will opper to Mrs Willioms, Secretury of Sinte for Edecation, oguinst Kirkleos Council's plen to reconstruct the polytochnie's governing body. The gocarnors wanted o governing bady of 35 in serve for three years with 11 incol onthority representatives, 18 neudemics and six from industry.

This week the connect approved a scheme for a gov-orning body of 37 th softw for four years in consist. of 11 incal authority representatives, 14 academics and 12 from industry.

Professor loses 'right to supervise my subject' claim

hy Frances Gibh

Edinburgh University's court has refected o professor's claim that if teaching in his subject is not done

teaching in his subject is not done under his seperation the university is in breach of contract. Dr Duncon McMillian, professor of Resource linguistics, cluims that under the terms of his contract of employment he has statutary res-possibility for all teaching in Remance linguistics or ony contact definable as "contrastive descrip-tion of madern neo-Lutin lan-guages".

Her in answern neo-curn integrages. He is objecting to proposals by the department of French to intra-sluce, in October 1978, o new course antitlest the history of French and related impanges. Professor McMil-inn said this week that despite the court's decision he had been legally publicat the the undersite was in

be taught at all, ho argued. He

cloluis that he was not conaulted over proposuls for the new coursa The issue first ernse 15 mouths The issue first ernse 15 mouths ago and after discussion on vorinos committees was brought hefore the court. The university's view is that the professor's cluim that any mem-ber of staff has the right in insist no instruction simuld take pince in a cortain subject except under his supervision or with his permission is " academically enocceptable". A opulyament suid it hod always

is " academically enercoptable". A opukosman suid it had always hear understrond within the univer-sity that a course could be mnun-ted provided it had been through the proper procedure of brands of studius and the senate. This peln-ciple was implicit in the remains of the university. A professor could not have the suite right of vero-The inspection for accession.

The issue has ocrasioned an inquiry by a stuming cumulties of court comprising ucadonic staff on the rights and responsibilities of professors and heads of department. in rolation in the teaching.

London v-c payment complaint rejected

"Talking Polat", page 10 . Classified dider

The national discussion bout education, sparked by the Prime Minister last October, begins today. David Walker previews the first regional conference, 9

Henry Chilver begins a a series on higher education and the needs of industrial society, 15 Leader, 14

Poly profile—Wales

Peter Scott visits the Polytechnic of Wales where he finds a flourishing down-to-earth approach, 7

Popular culture

Approaches to Popular Culture" edited by Chris Bigsby is reviewed by Allan Rodway, 16

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Politics books

Jean Blondel, James Cornford, Heinz Lubasz and Keith Middlemas are among contributors to five pages of reviews, 18-22

Freedom to speak and publish is one of the main arguments in favour of tenure, reports Michael Binyon, 12

Jef

6

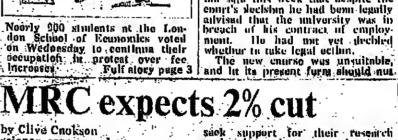
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Don's diary' Noliceboard North American news Overseas news Leucts looks



MRC expects 2% cut

by Clive Cnokson science parenting boardes, governing by Clive Cnokson by Clive Cnokson science correspondent science c



Do away with **CVCP** and **UGC-Beloff**

hy Sue Reid

Crucial savings would be made if the higher education sertion of the Department af Educution and Srianco and the "twin bureaucre-rics" al the University Grunts Com-mittee and the Cammittee of Vice-thencellors and Principals were screpped, Trafessor Max Beluff, prinripsi of the University College, linckingham, hes declared. He has nut forward a plan for

Inckingham, nos declared. lie has put forward a plan lor savings le universities' non-produc-live axpeuilture, made aut a casa for the State taking a secondery role us o provider of educution, suil strongly rritirized the number uf uverseas students allowed to hegin eduration courses.

Giving a paper at the City Unf-versity he snid: "To get rid of the DES's higher education section and the UGC and CVCP would be an important saving of non-productive expet diture. If universities were expesditure. It iniversities were ta be entrosted with spending the product of their fees nod a subsidy which, npart from research, was calculated on some simple formule, would probably much increase their observer.

affirfuncy." "f bulleve that there is e good "f bulleve that there is 6 good case far saying that the State should never hu the principal pravidor af education et any level end that its rolo should ha as far as possible restricted to financial subvections of voluctury effort with the mini-mum of direct intervention."

If wover it was necessary to work with what was inherited. There was nu possibility that in a chantry where the Statu imanced higher education to the overwhellowing extent it did in Britinin that nut independent sector could develue in the way ente exfsted, greatly to the nution's henc-ilt, in primury and secondary edu-

On ovoreees studeals in Britain Professor Beluff safd that higher educatiee remained one of the nost important potential exports. The hippstudes of differential student fees violated both oradenic deconcy. and the basic prisciplos of market economics

At Bucklogham identicef fees were charged its all students doing the same courses.

same courses. But ho added: "Probably ton many overseas students ore being aflowed to begle HE courses. I say 'begin' advisedly, because quite a proportion of those who apply to us have made a stort efsewhere." Several things defented muey of them. The most obvious was fangu-age. Even from Continonwealth countries where eucondary education trea in English and where is reeson-able colloquial layel could be expec-ted it could hot be essured thet the transition to university work domtransition to university work dom-anding the understanding and menf-pulation of obstract concepts was within their immediato reach.

within their immediato reach. This second ocadente year of the university college was slarted at the end of january with 105 new em-dects and 56 others enforting the second year of their studies. Of the new students 63 are read-ing law: 19 law, economics, and politics; 14 economics; end oine history, politics and English

Ferry scientists realize that there is now an internationally accepted cude of human rights praviding a nolversal standard against which the performence of governments und public antharitles can be measured. It has grown up since the Second World Woe by the accumulation of international instruments, signad world woe by the accumulation of International instruments signad-ond ratified by macy governments of different cauntries, und surring with the United Nations' Universal Decimation of Human Rights in

1948. A distinguishad stinly group, can-sisting of Professors Michael Aliyah. tians Koroberg, Martio Pollack and John Ziman, Mr Paul Sleghurt, Mr Jan Riley and the lata Sic Kennath Younger, prepared the report which describes the relevant pravisions af Internetional Ituman Rights Law fn detail asd shows how they affect science.

4 storey complex opens in

Wolverhampton

Wofverhampton Polytechnic has for most scarce Wofverhampton Polytechnic that is the work of the work Students qualifying as teachers ling, ic bardest to get jobs in primary schoola, according to e survey by the University of Aberdeen Carcers and Appointmento Service.

udvooced initiae oducation pool. The Horary building has a floor if area of 4,200 square motres and 750 reader study places. It has been designed to provide for the iong term needs of the polytechnic and neighbouring colleges. The pre-sent etock of 70,000 volumes is planned to grow to 200,000 as the student numbers increaso to 4,600 by 1981. by 1981.

£150,000 appeal

An appeal for £150,000 to fund a chafe in education far international understanding, cooperation and peeco ie Londoa University's Institute of Education wos lautched this week.

The Marc' Goldstein Memoriel Trust was founded as e tribute to the work of a Londoe toothor who died in 1970. Contributions should be sent to the Donations Secretary, Mrs Jenn Coffins, 125 Turney Road, London SE24 7JB. Mr. D. B. Haggart, the senior careers advisory officer, said al-though tha two lorger percentages wcre "unacceptably, bigh", thoy were lower than expected. Tha other two percentages represented levels which could be rogarded as acceptable, bearing in mind that they roferred to the position oely one month efter the start of the

Iluman Rights Law to scientific re-search are examined for the first inne in a Caunril for Science and Soriety report rugards public protect in arguing that scientists have a duty to take outlan on huluff of col-leagues deprived of their scholarly freedom. Ifer scientists realize that there is now an intermationally necepted ude of human rights praviding a nolversal standard against whith the performence of governments und

but always persistent and firat. "In aur view it is a mistake for any orgeolzation of intrenational statiding—such os many uf the recognized scientific institutions—ta refroin fram using the pawerful and tested weapan of public protest only because the channels of private persuesion have not yet been exhausted.".

Bayrotting international scientific conferances in countries where scientists ara oppressed, and refus-ing to cotor into scientific exchange agreements with offending nutians, are mentianed as prartical exuntules of possible sanrtinns.

 describes the relevant pravisions at international luman Rights Law fin detail asd shows how they affect.
 International luman Rights Law fin detail asd shows how they affect.
 Science.
 Scientists, Individually and through their professional organizations, oust protest publicly against informational functions wast protest publicly against informational functions and in clear cases must employ sanctions ugainst transgress sars, urgues the report, which has been endorsed by the lifticisi Isstitutions to enforce rumplianed lift the international rume my entrained for the precise issues of staka in the international lumm Rights Law within any rentrained international functions to enforce rumplianed with the international concerned cont assert that the international conthermation international concerned cont assert that the intern "The scientific community has

and Appointments Service. Based oo replies from some 950 teacher troinlog graduatas irom all eight Scottish universities end Palsley College of Technology, tha survey shaws that la the September after graduations, 38 proc. cent of students seekiog primary school jobs were still usemployed.

The oext most difficult area was

The oext most difficult area was at eccondary level in history, geo-graphy, modern studies or acono-ntics, Jobs were easier in mathe-matics, physics, bpsincss studies or music, where only 3 per ceat were unemployed, and in English, modern languages, chemistry and blology, where 10 par cent wero unentloyed.

Mr D. B. Haggart, the senior

one month efter the start of the first school term after completion

by Clive Conkson science correspondent The applications of international Human Rights Law to scientific re-search on a Cannull for the first tiple in a Cannull for Science and Soriety report published this work, h urgnes that scientifis hare a duty and easily suppart the existing human rights code, knowing that this rovars the issues in almast all ilia impartant resperts.

"The way is thus open far a much more pasitive appraach to actual cases that arise in practice, and for

cases that arise in practice, while of string callertive ucian against serious rases of appression. "We therefore propose that hul-videul srientists, organizations, learned sacieties and relevant learned sacielles and relevant government agancles should all study the internationel code and express their full support for all the provisions which are relevant in the problems of scholarly freedom ". freeilom

Tha establishment of a central rlcaring heuse to collect and cvaluate information about the de-privation of scholerly freedom is recommended. But to command the house to collect and information about the derecommended. But to command the necessory respect for fts impuro ality it is suggested it should be operated by one of more internationel organi-zations, including at least one non-gavernmental bady accredited to the internetional institutions responsible

Problems of graduate employment Primary jobs Uncertainty on the rise

last yeer were olther unomployad

f per cont last year. Although the number of unamployed appears to have fallen from sevee par cent ln 197S to five por cent lest yaar, this may lo part be due to the increaso in the number of utknowns, the report says. It may also be partly because of the rise lu those entering ohort-term omployment. At Glasgow, out of 1,860 first degree graduates, the proportion uneopployed or whose destination was not known, or who took work overseas, roso from 11 per coot to 15 par cent.

15 par cent.

At both universities, the bulk of students went hoto hudustry and com-merce. At Newcestle, industry and the public utilities took 31 per cent, commerce and the professions 22 por cent, while at Glasgow industry took 200 students and commerce 238. Fublio services accounted for more than 25 per cent et Glasgow and 19

The highest ratio of applications optical of the services accounted for more isocondary level teaching in bistory, geography, modern studies and <u>By subject</u>. Noweastle's report ports (2.5, 1). The highest nomber of applications that the highest properties those matering employment went the sector of the services accounted for more than 25 per cent at Nowcastle. By subject Noweastle's report of those matering employment went those matering employment went that cester at the services accounted for more ports (2.5, 1). The highest nomber of applications that the services accounted for more than a coordinate the services accounted for more than 25 per cent at Nowcastle. The highest nomber of applications that the services accounted for more that cester at the services accounted for more sciences and are services and are services accounted for more region, end for primary teaching in (37 per cent). Pure science and arts, the central region. The rado of however, bad the highest proper applications for primary jobs out those of students going on to further study.

Poly students no better off

1976 found permenent work withle: Of the BEd studeets almost three-six monibs and a further 16 per cont. sacurad temporary or sponsored employed by the end of the year. Colly 4 per cent of tho 1,840 stu-dants graduating with degrees, certi-ficetes or diplomas in 1976 were known to be unemployed by the end of the year. Ninatese per cont of the students were noemployed. The per cent of the space of the students are also be an all the students are also be an all the students are also be al



Mr Paul Slegitart-on sludy gro

The report "deliberately refrain The report "deliberative rates iron riting specific cantemport examples of the oppression is scholars or scholarship: others by drewing ettention to persecu-in one country, we could be the to task for falling to give a provinence. It oppreservite prominence to persecution another". Thus Nazi Gormany the colonels' Greece are moust Chile and the Soviet Union are Scholnrly Freedom and How Rights, published by Barry & (Publishers) Ltd, £2.25.

duress.

internally, he said. Professor Dahrendorf criticized

both the new Irvel of the fees and

the way the Government anununced them as "indefensible". "If tha

Gevenuent as "Boccensiole", "It that Gevenument wonts to give univer-sities ireedom to make up their miads it must not put them uoder duress hy saying if thay da not implement the increases they will lose a proportion of their income."

London University to end some **BScs by post**

Under the eew fee levels, the LSE will depend far more than 30 per cent af its income on tultion fees, he said There was no justifi-cation for introducing through the back door s major change in univer-On the rise Meny more students at the end of last, yeer were olther unomployad ar their destinadons unknown, compared with the year before, according to the annual reports of two university carcers services. The proportion of the 1,400 first degree students whose desteadon was uoknown at Newcastle rose from eight per coot je 1975 to 13 per cent last year. Although the number of unamsly financing or policies "directed against overseas or posigraduate

Of ell the science degress of by private study or correspi

external degrae courses at institutios or by private totalled 20,763 and by last yea number had fallan to 15,792.

King Alfred's

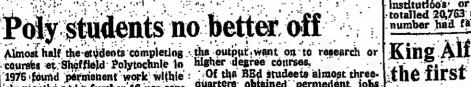
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Prides ara guaranised inas from surchergas and renga from 249 for 7 nights on the Coala Brava to 2189 for 21 nights in Greece's The only additional cost you pay is the 2 per sent Government law. Sas your travel agent for the Thomson Small & Friendly brobhus , or phone us on 01-387 4481.

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THE TIMES HIGHER EDUCATION SUPPLEMENT 18.2.77

Giving in would cost £1m Genetics and snap, crackle, pop

Dahrendorf says

Giving hi to student drammds that tuition fees should not be increased would cost the London School of Economics £1.16m and meap mass sivo redundanries, Professor Raif Dahrendorf, its director, suid this week. Students at the LSE communications and meap mass week in the saving hy the new fee tevels, the saving hy the new fee tevels te Dairentori, his curve of the school's administrative buildings this week dospite the director's threat to seek a High Court injunction. He warned on Moodsy that if they did not leave the building within 48 hours, ho would be forred to take

He added, however, that an enter-

uverscos students. The Nutional Union of Students He added, however, that an effici-gaucy meeting of the court of gov-ernors' standing committee had agreed that e last attempt to solvr the dispute internally should be oude. This governors' decision came after a students' unlose meeting had voted by 583 to 12 the routinous with the occupation ontil their domand that the faces not be increased was ins lacked the oction taken by the LSE students and culled on other student unions to take up the fees issue with their anthorities. A work of national oction is to taka place ut the hoghnling of March, cul-mionting in a national dumonstre-tion on Murch 9. Professor Dalirendorf seld the hool shared many of the students'

Surrey University senute hes ogreed nut to increase feas for part-time postgruinute studeots. "We believe strongly in the development aim and was prepared to discuss thesa rationally but oot under He emphasized that ao injunction Ho empussized that as injunction would only be sought as e last resort. "For someono like myself, this is an axtromely serious affair. I am a librral and do not helieve in invoking the law unneressarily." University disputes should be settled

belleve strongly in the davelopment of continuing eduration and in catalishing links with industry. Fee increases would be detrimental in this philusophy.⁹ The Committee of Vice-Chaocel-lors and Principuls has set up a warking party to review the wholu lessue of thitlon fees.

n lis area. A meniorandum from Mr Peter

hy Clive Cuokson,

science correspondent

The most significant of all the major benefits promised by generic engineering is likely to be the introduction into erap plants, especially rereals, of the capacity to fix atmo-

Allout one quarter of LSE stu-lents are estimated to be self-sup-parting. Home postgraduates and overseus students, of whost there are a very large number st the school, are worst affectad : home postgraduates facing increases from f1381 a year to £750, and averses students from £416 to £850. Professor Dahrendorf suid ona solvéon might he fur a substantial hardship fund, possibly of the order of genetics at Newrastle lest week. "I has been estimated that about a schird of when in Britain is attri-intable to the rost of manufartur-ing nitrogen fertilizers. Thus here and even mare in the developing spheric nitrugen.

and the contrast of manufarture in tradile to the rost of manufarture ing nitrogen fertilizers. Thus here and even mare in the developing is countries the east of N-fertilizers is a rate-limiting factor in tha pro-r duction of food and therefore a majar prublem in overcoming the sail is a frate-limiting factor in tha pro-r duction of food and therefore a majar prublem in overcoming the sail is fratescen; and the entry of the sail is a frate-limiting factor in the pro-r duction of food and therefore a majar prublem in overcoming the world foud shartage", he sail. Therefore a inge fisanrial burden would be remewed from farming, and the pollution ransed by nitrates washed into rivers and rate stroke". Would be relieved "at a stroke". Main the pollution ransed of and I am and respective of specific human is indered by nitrates would be relieved "at a stroke". Main the pollution ransed of and I am and respective of specific human and and respective of the production of specific human and a major stell in traating ar even

By Judith Judd

ILEA delays decision on

teacher training moves

optimistle that complete success will be achieved in the forescendle future", said Professor Glover, who is chairman of the International Marchiel. Constitute Completence Microbiol Genetics Cumulssion. Gones that rontrol N-fixing in bac-teria have been isolated on bac-terial plasmids, and axperiments are in progress in several laboratories in introduce them bits plant cells. Among medical applications al

genetic engineering actively heing persuent, Professor Glover montinnod : • the preparation and study of

cancer-inducing genrs-" thus the way may eventually be open for the preparation of antisera to specific

cuncer gene products"; • closing the human gene for insu-lin pruduction in a hurterial hast alfors the passibility of insulin man-ufucture on e largu'scule for this treatment of diabetes (a shartage of the currently used soinal insulin

preventing a winle range of diseases ; "mure distantly und certainly very speculative is the remote pussi-bility of treating hereditary discuses y Individual gene therapy." Professor Glover forecusts mojar

industrial applications of genetic emenously the yield of microlial cozymes used in many processes, "Mare speculative applications might, for example, be in the cammight, for example, be in the con-struction of thilor-made micro-inga-nisms, say to deal with pollution problems such as major all spills." He went on to the public debate about the bazards of generic moni-pulation, which took off in 1974 when a group of American scientists, led by Paul Berg, called for a world-wide manutorium on experiments wide moratorium on experiments until appropriate precautions could

bu tuken. *1 tolnk it is reprettelilo thet by hehaving in o sociolly responsible manner the scientific community has suffered eo badly at the hands of the prass end politicians elike. Our colleagues in other guito disparste fields of resourch may look upon this stary ond drew a moral-and may remain silent whore other-

Thames defies 'cut overseas number' order

hy Sue Reid

Thames Polytuchnic governors have voted upuinst accepting the Inner London Education Authority's cou-London Education Authority's con-troversial directive to cut its over-sens student numbers from the present level to 10 per cont by 1982. It becomes the second of the five polytechnics funded by the anthoricy to defy the plon. The college, which fell in line with the first phase ul the ILEA quata policy, had held its oversens mumbers to the same level this acn-denic year as last, and now phans

dentic year as last, and now plan,

denic year as hist, and now plans to fullow the recent Deputtment of Education: and Science, fostruction ohd koop the numbers next year to the 1975-76 levef. The Polytechnic of Cantral Lon-don has olso finally rejected the ILEA plan and the governing hodies of the North Loudon and City Poly-technics will decide dutility the next month whether to follow this lead. Thuir acatientic boerds have elready came out in direct opposition to the

directive. A doudline for responses from the five. colleges was not by the uuthority for February 28, but South Bank Polytechnic hes colled for furthor consultations Mr Vivioo Pereira-Mendoza, direc-

tor if South Buak Polytechnic, is slau bellevud to have appealed for further detailed consultations with the ILEA in his capucity os chair-man of the Committee of Directore of London Polytechnics. But this week the ILEA manual that it had not received any repost

letter. The polytecheles which deelde to

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Architects reject German diploma

be a place for something similar be a place for something similar training contro. or its purt-time actually training contro. or its purt-time equivalent at university forel and by Professor Wathin Williams, of Pcading University, null Dr G. J. Dowrick, nrincipal of Seole-Hove College, Devon, was hopressed by their architects an shorter charses must greater en-hissis in nouldon fuel indone in the solutions of the formation of the f

Class and will fit perfectly litto the continental institutions' greater one invalid the second size of the 1980s." Ha. contrasted the widespread in agricultural courses, both in ensomething voir go into if you cannot tant. There was none support for a
lable candidates for jobs in British rhemistry round he ancrificad in
the a much make roun, for mathematics and
uccept the German character. The superior with some amendments. The superior with some amendments. The superior with the appendence in a make rount for mathematics and
uccept the German character. The superior with some amendments. The superior with some amendments.

Under the first criterion the By Juditit Judd Duder the first criterion the polyterbnics were safe and unler the second Avery tiff was margin-rity hus deluyed its derisisn on the glly more useful to Londan since reorganization af teacher training it had a wider range of caurses.

it had a wider range of caurses. Under his original prapasals Thames Polyterhule would have 350 places, 200 for physical eduration, Santh Bank Polytarhnic Including Battersan would have 350 and the Polytechnic of Narth Londan wauld have 290 including 60 places at the Central School af Speech und Drama, Avery Ilill wuuld have 580 including some craft places fram Sumedirth. Shuredirth

Mr join Penfuld, a menuber of Mr Intin Fentuid, a ofentiter of the action committee at Shouentitch, said: "We were untawed to read the, menorandum, Wo ...gru, the largest single producer of handl-eraft usd design end technology teachers in the country.

"This is e shortago erca. Our studants could find jolis several times over. If the ILEA's rensoning on the need to provide for London is accepted it is hard to see haw institutions with a netional rale construlyn at ull

"In Loudan the majurity of heads af departments and teachars in design terhnology are ex-Sharcultrin students. Gver the last oight years 55 per cent of first appointments for design technology weru fram Shureditch.

"One present output is 140 a year. At Avery Hill only about 40 teachers of design technology would be produced aach year."

Drink addiction

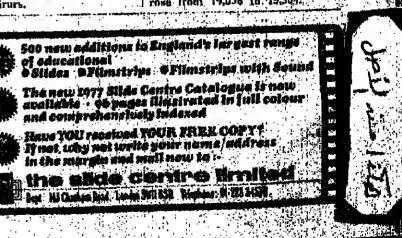
Newsam, the outhority's education afficer, sent to Shoreditch College, Egham, Surrey, on Fehrnery 3, propused that the college should close and about 100 of its design and technology places be transferred to Avery Hill College. technology places be transferred to Avery Hill College. After same flerce lobbying by the enliege, the ruling Labour group fuiled to ugree an a policy for tea-cher training. A second memaran-dum from Mr Newsam to Shorolinth said he had decided not to part the proposals to this week's further and higher oducation sub-containtee on uriginally planned. The ropart in the committee would be "purely fuetual" and a decision would proli-ably not he taken until March 9. The Guvornment is suggesting that two Landon rolloges, Philippu Fawcett and Futzedown end the Sid-ney Webb College, now part of the Central London Polytechnic, should close and has laft the autharity ta divide the remaining 1,500 initiel tenchur training places. If , Shoreditrh remained open Avery Hill wund have tu close. Mr Newsam taile Shoreditch dele-gminn that he was concerned first

Down on the farm British training equals European

the Bridsh Council had sent teems of three or four agriculturalists is abtain a current view of educa-lionsl ideas and practice in 11 Eura-pean countries, and their reports formed the basis of the conference. Delagares divided into fitree wark-ing groups under the brood head-igs of higher oducation, integration of education and training, and feacher, training and curriculum development:

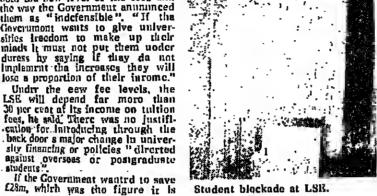
their findings, the conference chair-man Sir Eurys Jones, principal of the Royal Agricultural College, summed up their moods "You are synam, but you there said it is not principal out you have said it is not officiencies in it?"

enversities and colleges word in seners superior to managers in tommerce and fudusity, "They du menagers in terms of shoer ability and nous. We have managed to turn out men who are really top sinually, of the 1980s." Ha contrasted the udderiverd



As future in a much praised "levnote in the method in make round for mathematics and in a much praised "levnote in the work or mathematics and use of the sound o

According to RIBA, the profes-According to RIBA, the profes-lunal bodies in France, Italy and the other member countries spared its concorn, but were overriddent by





The education and treining of British farmers and farm workers compares well with continental systems. Ther was the genoral feel-ing af a British Council symposium, "Agricultural Eduratioe ond Burope", attanded by many of tha country's leading agrirultural edu-tationists lest week. The Bridsh Council had acot teems of three or four agriculturalists

concopt. "Would it perhaps be e good idea if vacational education started earlier in some schools, and general uducation continued nuclt longer oud more vigoronsiv at further edu-cation level, especially in foroign fanguages and perhaps in mothoma-tics?", he asked. Monty delegates did feel that agri-

Mr reewant into e shoreditch dele-antian that he was concerned first-with the lang-term vialility of insti-tutions and second with the contri-bution they could make to the needs of Londan. Many delegates did feel that agri-cultural education could be futco-

Analy defended and the conference chairs and curriculus and the conference chairs and the confer

causes concern

wisu they might have been out-spuken", ha concluded.

Government seeks industry link on scholarships

liv Alan Wood

by Judith Judd

seademic merit."

councils promotes.

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The Government is examining a possible scheme for industrial schularships, Land Winterbotom revealed this in replying for the Government in a Lord's debate last week on the attinde of society, and particularly students, towards

It was not possible to give details but the basic elements were that it would be run in collaboration with industry and would be in-tended for especially able students taking patti-cular courses in engineering and technological subjects, he said.

The other type of cash incentive in mind had already been announced—sudenrs may in future receive payments by employers of up to £500 more a year without any reduction in nwards. Until now the maximum had been £185. Lard Rochester, who initiated the dehate, said the idea seemed ta heve gained, grannd among

the idea seened to neve gamed, grand, and g students that rargers in industry nere not shipply insuitable but, in some way us other, selfish. Yet surely services could be rendered to the community as much in industry as in schools, haspitals and the social services. If graduates were not to play a significant part in sopplying industrial leadership, where else

was it to came from 7 Industry could do much more to ensure that students generally had a much better idea of what octually wont an in it, the attractions it

A cannell should be established to

fight attempts to cut buck arts

research, the National Union of

Students says in n poper on the

The psper, the NUS'o latest cun-

greduate educutian. "Adequate

funds to support postgreduate

studies should be transferred to the

University Greats Committee and

ts oquivalent bodies for allocation to lualitations on the basis of

This would prevant the duplica-

tion of effort between the UGC and

the research enuncils and the seg-

montation of knowledge which the

rigid structure of the resourch

An Arts Research Conneil might

help combat, the low vlow of urts

there are any further cuts in aris

postgraduetes the teaching cana-bility of many departments will

decline. There is elreody evidence

of the development of unfavourable

staff/atudent tatlos as e direct

Indijatry should be made aware

of the velues of MA and MSe quali-

the product of the state

result of research cutbacks."

future of pastgraduate education.

NUS proposes arts research

mork.

illistry.

help combat, the paper soys : "If be forced to stop studying hecuuse in the paper soys : "If of the recent increase in this force.

fications, for which less emphaals teeching at undergroduate level.

council to help fight cuts

had to offer and the great service that could be rendered to the community. Large industrial organizations had little to from in presenting themselves in this way for comparison with other larce institutions.

Lord Corr of Hadley, for the Opposition, said the test by which people should judge the value of an industrial or commercial enterprise was the slouble me of, list, to make a profit and, second, to use that profit to the genuite benefit

Until industry could carry that message with contriction he did not helieve progress would be made in rajsing the estreau in which indus-trial and conjunctial artivities were held by the country at large and young people in particu-

Lord Sceholup suid the Careers Advisory Service for school-leavers was districted; ho thought it incompetent and hiased. It should be taken right out of the education system. Lord Bowlen said that a comparison of "Subaries offered to graduates in the town hall

and those going into factories showed £1,000 difference two years are in farour of the former. This problem, which had come about in the nast fire years, had not been forescenand they must not be surprised at the cun-

sequences Lord Tedder said in Germany scientists and was in produ-technologists in industry could hald university by 30 per cent.

should be placed on farmal written

exuminations and more on project

Postgraduate research is under

The NUS finds incit acceptance of industrial and business interests

sored students being prescribed very norrow projects and often being colled sway from projects to sorij out problems in their sponsoring in-

Propusals to Intruduce a taught course to PhD level were misgulied,

though a taught induction course should be given from September in December to first yeur PhD students.

The paper says there are 9,000 self financing pastgraduates, as many us 25 per cent of whom may

This would cause distortion in rustgraduate educution. In subjects where there was inadequate finan-

chil support sindy at pasteradulla level would virtually cease in all but tha largest inotitutiono.

The decline in this area, particu-lariy in the eris, non-business social

science and non-applied science, walld have a major impact on its

Grading

appointments, a system which should apply Britain, where the system existed only ite me cine.

Scientists and rechnologists should seconded to universities as partitime staff at around the age of J0 and 50 a five-year con-tract. Their duty, in addition to teaching, would be to purste their own profession.

Lord Winterbottom, for the Government, said admissions to university degree courses in science and technology subjects fell or the senember of undergradenests, senember by over 50 per 660 Lass three years, Profess science and technology subjects terr or the primitier of undergraduug, early 1970s but had recovered since 1964. Science by over 50 press Within the total, engineering had been doning particularly well. CNAA runness were also Stewart, the vice-changing attracting more students and admissions to engineering increased by 16 per cent in 1976. It his annual report for Res

Nevertheless, there were still many empty places in science and rechnological subjects. Normally Krele course la in mirersities and polytechnics. There were 27,000 this year of which 22,000 were at moved sities and 5,000 in polytechnics.

that there were signs that adultisions would the latest figures from the Buiver tries' vest ones require students: Central Conneil on Admissions showed that the both science and non-science applications for 1977 entry to universities were tests in the first part of perper cent higher than in 1976 for the pure but it differs in requiring a course, and no less than 18 per cent higher hannel A levels as ao entry for engineering. The most notable increase reas in production engineering which was up

Like the four-year courses tication.

Keele boosk

science

intake by

50 per cent

Easter University has forme

This follows the intropo-

Aluch of the university of (Hugiamme of expansion al in this new threeyear com it is new possible to add the binations of subjects to the and language apploas which largely comprised the court

Commenting an the Govern propusals to increase luides

tenning and also for the be

generally, he says. This ha. from the increasing of the student ratio from 1:8 to from the coming of forder

Sponsorships up to £500.

hupenving access to mailannt collect. De Strong said this week that the department's nork, which involved arganizing the removal of exhibitions from one place to mother, child he been better. I'nder prosent rules i stein receive up fa £185 find skief

Airs Williams's clear brain to enchurage sponsorality by trial firms so that mere will take courses "lirectly eiself dustry with benefit to be an well-heing of the nation" She said in the Conser-lique that employers at inizations concerned with full advantage of this take that as a result more sweet. he encouraged to choose on direct value to lodutury to a

Museum loans go on despite V and A cuts The Victoria and Albert Museum will continue to circulate to local bath from Urhain and masses

nutsennus, culleges and universities nbout 90 per cent of all nuterial presently available, despite the closure all is regional services de unences for the further partment.

Mrs Willhaus, Secretary or State for Education and Science, and numced in a written Parliamentary a continuous "process of unswee last week that she had de-that is implement the proposals ampitt and on their for Mrs Willbuns, Secretary of State cided to implement the promotion of the cided to implement the promotal of Dr Ruy Strong, director of the Victuria and Albert, to close the de partment in order to meet the 18-per cent Civil Service stuff cuts.

per cent Civil Service staff cuts. She also said that the Grovern-ment was preparing a ccheme in Indemuify heats to selected merchy the Victoria and Athert kan any of the national collections to make objects available withom in-outring navies. quiring payment for insurance.

In oddition, the Standing From mission of Masennes and Gallactes would be holding a conference to circulating population, with a view to

schiltions from one place to another, cruid he done by three members of staff, oud these stand members of staff, oud these studid be kept on. The remaining 20 staff who ware engaged an muking pers exhibitions would be redenloyed as far as possible in other parts of the museum. The museum is required to have

81 of its 700 pusts by April next

While the closure of the depart ment represented the und of a tredition, he suld it was time to expanino whether the country should move towards a national loon service, or whether regional museums should lend their own texhibitions to each other.

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'unsound and undesirable² The grading system in higher edu-

Postgraduate research is under auack, says the paper. It says the suggestion that research should be geared to the ueeds of society and the economy is "quite abharrent". "This model lead to research helng dute for profitobility rather that The psper, the NUS'D latest cun-tribution to the education debate, also says thet research councils should be concerned with funding research projects and not with post-

If this was so, it was o fallacy within the research sector "very dis-urbing". It says that there are already cases of industrially span-sored students being was been and being and being sector "the sector "the sector "to be and the sector being sector bein "I em not so much concerned la make the educational competition fairer as to make aducation noncompetitive.

He concludes with the best ample he knows of an academic pro-file, the graduate profile of the Birminghani School of Architecture. The Grading Game, from NUS Pub-lications, 3 Endsteigh Street, Lon-ilon, WC1, price £2.20.

I ransport studies

A new academic subilivision ins upneored on the fringes of social acicice and engineering—transport similias. A group of taachers from universities and polytechnics insed in business atudies, economics, pub-lie alministration, geography and planning have come together to farm en orgenization of teachers of farm en orgenizetion of jeachers u

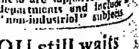
They have produced a report as the first shot in a campaign to give the subject coherence. In an inito-duction Professor 1. C. Cheeseman, chairmen of the School of Trans-portetion si Southampton Univeralty, says that tronsport studies ought to be recognized as s disci-pline with the seme integrity ss ongineering, science, jaw or medi-

clue, According to the report, which is addressed to the University Grants Committee and the Connecil for National Academios. Avards, trans. port studies has a well-defined cord which the history of transport and plenning could well be added. The Teaching of Transport Studies, Sop from The Centre for Trehsport Studies; Cranfield Institute of Tech-nology. direct value to Journal to the top of the source of

on the way

transpart studles.

UGC sets up Atkinson study



for grant

UGC sets up Atkinson study The University Grents Committee has leunched e series of rescarch Atkinson report on capital provision for university liberies, published to receive a control of the decision follows a meeting with the Association follows a meeting with the Association follows thoses: Criticisms ere that university lib-suited before the report was mem-duced ; that it took no account of the differing research needs of in-



oreed back on to the conference eircul).

In a good year that may mean no more than a week in Bulgarla dis-cussing dwarfs in eighteanth-can-tury theatry. But, far students of America, 1976 was a very good year. The bicentennial of American independence, indeed, was like a cambination of the Marshall Plan and Concle tone In foremal and a Cank's tour. It fustered deeply entrenched nearlande insupervised of the same line of re-sentric state of the same line of the sam test the much averated theory that are only last to fress n girl in proce, put a plustic tray in her hand, and burtle her through the air at an altitude of 35,0000 for her morels in disintegrate.

In the last year I have attended several such bicconendul conferences, in Europe and America, 1 on extremely doubtful of the value on extremely dominial of the value of such occusions while remaining stendfroaly connected to strending them. Who knows what fragment of truth une oray pick up along with the limitation feather zlp bag donated by courtesy of on Inter-national conglumering who, Incred-ibly, wish it to be known that " nt every moment of the dsy we touch your lives".

Stirring the blood

The first conference took place st Schloss Leopoldskron in Salzburg, and was the first of five interna-tianal affairs which were to climax in September, 1976, in Weshington. At Salzburg I was to cheir e session on pupular culture and to deliver e shart psper. Heving spoken for the requisite 20 minutes (this belog tho newly sgreed standerd unit for "conference ment") I was duly ent down to size by an Irish delagate who claimed tu "speek for the gutter"—a claim I was in na pooi-tion to challenge. He denounced my elliam, wilfully misropreseuted what I had soid in such a wey us to raveal en ohvious future in acade-mic polities, then slumped back huto mic nolities, then slumped back into his chair to glower morosely et me for the rest of the session.

We were then free to attend the reception at which 100 peoplo stelked the room staring at ouc snotber's lapalo or breasts or whet-

ette stan siss and at a

Research USA Since the word "research" has these days been stretched nearly to breaking point, being applied with unashumed élan to an afternoon in the British Museum or a jet flight to Acapulen, the academie with a desire to pursue knowledge any-where with o temperate elimate and o reasonably soft currency has been forced back on to the conference He was humedrately followed by

There was an andible sligh of relief as we slid so easily back on to the familiar ground of European politics, while an occasional American voice repeatedly began a hope-ful sentence: "But surely...."

We then retired to the cellar and played ning pung, this helog the period in which table tennis was seen as the solution to any moral ar political problem-which is at least an improvement on the Prench convictions that an problem is sa rom-plex that it cannot be subved by pushing a supposinity of your bottom. And sure enough, things were back to unrulal in no thus, with various Enropean groups conspiring in corners, with the trish telling endless formy stories to baffled Lithmatian emigre publics, or al ecompatics, and with the Americans heatedly discussing which of them had denumced Vier-nant welling and was forcies by nam earliest and must fearlessly.

The conference, in other words, ended splendidly—nolike an earlier one which had also taken place in Austria and st which the American pathassador had succeeded in insuling more peuple in a shorter time than I would have thought possible. He began by drawing on elabor ale and most infortunite parallel liciween the American und the

Austro-Hungarlan Empire, both

number of the state of the stat charate could have been a hade more temperate the parsence in http://www.batton.dull the mint

the mint Some here have on perperior duths in a traded very not exactly over-whething. There is something about a conference which there the mind to peaner burrer. No did the format help, There is a entwiction, boar of economic recessifies and fast becoming onthology, that as many people as possible should speak at conferences. Perhaps it is the influence of the theat is a avain garde. The result is that in-stead of a single speaker inter is confronted with a panel, each mem-ber of which may speak for pointore than 20 minutes. than 20 minutes,

turned so by Schwarmon.

It retrinds the of a United States Defence Department employee once mer whose job was to selve prospective targets in the Soviet Union fur internominental ballistle otissiles. He was obliged to present his teasure for selecting the target in 15 words at less. Bad luck, Onisk.

I understand that at a recent meeting of the Popular Culture Association, held logically enough in Caesar's Palace, Las Vegas, there were 600 speakers. Thut is the juy of the new dispensation. Som we will not need an andience of all. We will just send papers direct to the grani-awarding authority so that the conferres can get an with the sectors husbress of rying to regotiate a new jult and discuss the venue of the next conference, the price of plastic folders in Dypsala, CIT.

But the weakness of the papers was, of rourse, neither here no there. The real jub of the confer ence was to bring peaple together, to let them breathe the American sir, to celebrate. This was an epiphany.

Ethel's blessing

Washington is a strange city ; o neoclassical jungle. You have never seen such a superstructure. But they are working at the other end tuo. They are building a subway system, like a culture trying to create its own psycho, its uwn deptit. And, simply to move sround this thy is in education. If the Smithsonian buildings in which the conference took place constitutes the egn, then the massuge parlours, the topless and bottomics bars which we had In pass in order to reach those intel-lectual fusionesses, constitute the id

And what other civies in the world regard e cemetery as one of their chief attroctions? Busmobiles, lanking exuctly like the vehicles which thread their way alang another gaugils of the American psyche, Disney Warld, set off every minutes far a tour of the nation's corpses.

nation's corpses. I remember ion, a visit to en expensive Washington resteurant— so axpensive that we could barely strape together e \$7 tip which wes racelyed with the ill-grace which it daubiless deserved. Here I learnt the necessary truth that in Wash-lington a restaurant is not eximanily

51.5 12.7

Campus trends seen through media eyes



Martin Trow

llow does anyone know or learn about what is happening in Ameri-

able, given the nature of aur sys-tem of higher oducation and the media themsalves. This is so first structure revolt of the 1960s, sketched by many hands and projected an the geneity of the American system, with its 3 100 colleges and univer-sities, 10 pillion students, half a million to thers. And it is diffi-cult to ext gerate have vory diffe-student for a swing to conservatism. million to thers. And it is diffi-cult to exi gerate hav very differ-out these i stitutions are from one a sober reassessment of the events eut these i stitutions are from one another, an just across broud cole-gorles-for example, public jumior icommunity) colleges as compared with private research universities-but even within categories: for example, most California commu-bity colleges ars resily very dif-ferent from the community collsges that are part of the City University of New York. As o result almost anything one might say shout American higher cducation is true somewhere; s almost nothing ane con say about is it is not only helerogeneous but also fost-changing, in response to toyrlad (and lergely invisible) murket forces s as well os political or edministrative (decisions.

decisions. Quite apart fram the effects of the size and diversity of the aystem is the tendency of the moss medie in report events rather than the ta report events rather than the character nod ordinny workings of institutians. The daily work of col-leges and universities—the un-glomorous businass af teaching and leoroing—is for uncal newspapers not "naws", end certainly cannot compete for apace and altention with student demonstrations, sit-ms, ar clote, or own with court actions

tioning an analysis of a state of an an analysis state by an and when the second state in the second state in and

Abs. Recapite saw in the death of the university to the orset of the fest mean crucie of industrial of the lost ereat crists of industrial contrained by by the standarding and point deals pointed to the dis-turbances as evidence that " the starlengs are trying to tell us some-thing", and then told us what it was "Bot as we know, continenta-tors sometimes horrow significance for their writings from the impor-ance of the events they are analysing.

The leaders of the New Left for tubying, the bound of the new left for people who demonstrated and satin, whatever their motive, and com-mitments, as members of the "Move-ment", frontically, parts of the pol-itical Right shared their interest in assorting the strength of the New Lefy on Century, Rouald Reagan almost certainly won reelection as Coremon of California by explaining the popular resentation of the studen disturbances at the Berkeley campus, and Richard Nixan was so grothful for student demonstrations against him thint (as we learnt later) when they did not occur spontuncously, he arranged them. J do not for a moment distrils

the very considerable student dis-turbances of the 1960s as contrived or trivial events. They full important consequences both on the national abom what is happening in Amai-can colleges and universities? Apart from the handlul of specialists (who have their own research problems) must people must depend on the "serious" magazines and news papers, and when something spe-cially represent to a magazine, and television. But the picture the mass media present of our cut-television. But the picture the mass media present of our cut-leges and universities is, on the an afraid that is almost inevis-table for the picture the mass media present of our cut-television. But the picture the mass media present of our cut-television and miversities is, on the an afraid that is almost inevis-tible war in Vien and the strated against, our jovalvement in scene and for the colleges and unl

Against the ploture of a radical student revolu of the 1960s, sketched

This is not the place to attenuit a sober reassessment of the events on Ameriran compuses in the post decade. Fur the survey data I have been holding at make the meaning of these events more problemole than the popular view would have it. In the late 1960s there was widespread and growing opposition on campus (as in the isrger coclety) to American involvement in the war in Vietnom, ond especially simply opposition on campus to millinary conscription for that war. Thuse sentiments were orgonized and mobi-lized by the New Left behind a broad society of the indications. But I do not believe those slagons our evidence does not suggest that on y sourcedeble promation of American students were "radical-ized" by their estaciance in the movement cooling the war. Mare-nover, while the colleges and univer-sities were "outered" in 1975 than in 1969, this should nat be taken as ovidence that students and teachers work while the whole ware concerned In 1969, this should not be taken as ovidence that students and teachers were, mi the whole, more conserva-tive in 1975 than they had been six years carlier. If demonstrations contact be taken as believers of the range and distribution of sub-dent althuides, neither can their obvioue one suprem due to better

We were then free to stead the prediction of the set which add participation of the set with a grade to set which add participation of the set of the se



Table tennis; salutiau to maral

NOTICE BOARD

Chairs:

Dr A. R. Lipman, reader in the Weish foliot of Architecture, UWIST, has een granted a personal chuir at the astitute of architecture, UWIST. Titles of fellow: Ma heen grapted a personal chuir at the tastitute of architecture, UWIST. Mr J. C. Dancy, principal of St Luke's College, Exeter, has been appoluted to e cluair of education rhich has been approved for establishment in 1978 within the Scheel of Education, Exeter University. Titles of fellow: Major-tieneral Sir Lennari Atkinson; Mr B. M. Fellow; Mr M. C. H. Graves; Sir John Hau-hory; Mrs Carol Handley; Professor H, G. Hopkins; Professor A. Maccoll; Mr W. R. Mertington; Mr R. B. K. Stevenson; Dr A. W. C. Taylor.

Recent publications

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Appointments

Professor Trevor Villers, head of the department of biological sciences in the University of Natal, Durban, South Africa, has been appointed pro-fesser ef biology et the University of Balferd. He will take up his appoint-ment on August 1, 1977.

effect of audio-visual alds. The prejects are nrrauged in 10 categories as in the 1972 edition: non-projected media, still projected oredia, sound A survey of British Research for Audio-Visual Aids compiled by Suste Rodwell, head of resources at the third supplement to the 1972 edition, gives tictalls of score of the latest projects of research into the wse and

Forthcoming events

"Social services and social work : a demarcation problem " an immunul lecture by Professor M. J. Brown, pro-fessor of social abuildstration and soc-lot work, to be bed on february 2.1 in the new physics become theatre, Physics Building, Queen's University of Belfast. Admission Tree.

Be of the construct of the cons

on "Brilain-a suclety in interior 7", will lic held on February 23 at The Pavillun, Warking Men's College Play-ing Field, Donnefield Arenne, Canona Park, Edgware.

News

The Scattish Central film Idurary is offering free membership for one year to customers buying a copy of the new film catalogue, intre 12. It con-tains more than 4,000 thitse of entra-thmal and documentary films from all over the world. Specialist times included in the filmary rome from the Royal Anthropological institute, Higher Educational Film Idurary and other megaolizations. The special offer stores on March 41.

The Scottish Film Conneil's new arch-live is interested in hearing from any-one who has any film made before the war, especially it it is 50 years old, regardless of quality or quantity. Further information from Manyerin McCormack, The Scottish Council for Educational Technology, 16-17 Wood-side Terrace, Glasgow G. TXN.

RADID 3 (VHP)

The Brive with Vectors [NST201], 7:10 Aris Pourdellon Course; Work, The Brive David production to he Dran (Arios A priveduction to he Great Brituin 1770/1155); sources and heboring providing for the periodic Brive Curse, bonding did line periodic her Shoclive Long did line periodic her Shoclive Long

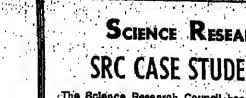
SRC CASE STUDENTSHIPS 1977

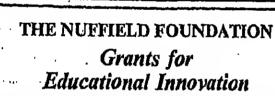
The Science Research Council her set a targel of at least 600 slu-denis to commence on 1 October 1977 under its Co-operative Awarde for Science and Englineering (CASE) achieve.

tor Science and Enginaering (CASE) acheme,... The coheme is inlendad to encourage colleboration between eoe-demio institutions and outside bodies, and provides an opportunity for graduales to broeden their Ph.D. training by gaining first-head experience of work outside the ecadamic environment. Detoils ete-sel out in the BRC bookist "Studentehips and Fellowships". Applicellona for approvel of a CASE project should be submitted on form R82A, Any application received by 31 March is guaranteed con-elderation for 1977. Any received leter will be considered it numbers permit.

Applications for the eward of a CASE studentship for a nemed atudant should be submitted on form RS2 by 1 August. Copies of the booklet and application forme are available on request from SRC, PO Box 18, Swinder, SN1 5BW, Tel: Swinderi 26222.

G Fi C: -





Applications ora invited for grants of up to £2,500 to support oducational innovations in undergraduato touching et universities, colleges and polytechnics.

Open University programmes February 19 to 25

Assistance with the introduction of new courses, the development of oudio-visual and other teoching metorialo end the evaluation of existing ead novel courses ell qualify for support undor the Foundation's Small Grants Scheme for Uodergraduate Teachlog.

The schome was first introduced in 1975, since whon grants totelling £175,000 have been ewarded.

Applications received by 29 April 1977 will be edjudiceted during June and those received by 31 October 1977 during December. Particular attention will be paid to the originality of proposed innovotions end the likelihood that they will be of volue in institutions 'other then' those primerily concerned.

Application forms end further details can be obteined front the Director of the Nuffield Founde-

SCIENCE RESEARCH COUNCIL

tioo, Nuffield Lodge, Regent's Park, Loudon NWI 4RS.

Saturday February 19 Sac 2 7.40 People and organizations: Dec interview 11) (D13/21; prog 1); 2.40 Naking some of doctery: Lime sole (D101; prog 2); 3.20 (D11; prog 2); 3.2

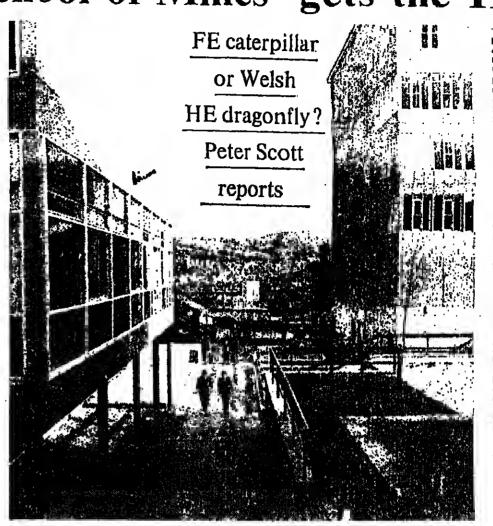
Polytechnic Profile-24 Wales the addressed to Gase 'Treforest School of Mines' gets the 1970s spirit

The Royal Soclety is the The Polytechnic of Wales is a polytechnic fourth function Award for ecthrough and through. It looks like a poly-in design and other dispersion of the largely new and functional interested in design measurement. The largely new and functional interested in design measurement of Pontypridd are firmly in the local the whinding applicant to gravitational style preferred by and pollitizing the could be presented in the 1960s. Ne vnom in this rocky for for a management of regulation of local style preferred by and publications. Applied and the sensitive in the 1960s. Ne vnom in this rocky for for a management of regulation of local style preferred by and publication of the Amar and the sensitive in a cademic elysium. It and March 11, to the Amar and degree course, in homanities, can be polar Adam Street, London. Hescrilled as non-vacational in an institution of per cent of full-time surfaces. It also

The Scottish Film Connectl's new archi-the kis interested in hearing from any-one who has any film made before ind, regardless of quality or quantify. Further information from Material the war, espectally if it is 50 vers-ide Terrace, Glasgow G. 7XN. The Penguin Publishing Compare is, for the second year, infering the George Orwell Memoring Price, video tradices commenting on current of the work. The work must have be spenwed either by the editor of the synapered er by the organization which the synapered either by the editor of the synapered either by the editor which and Date is March 31, and current ing date is Marc

There ere two pessible explanetions for his ennurent underdevelopment. Perheps t is still in the middle of metamerphosis 18.35 · Irchuslegy Loundelleg Louise Field (1998)
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Accel provide the second state of the state of the second state of the state of



training environment-and turned to the Council for National Academic Awards. After a brief and almost entirely hermunious court-

this that it decided to chose Barry rather than

sciences. Dr James is quick to add, "Journat perhaps in sociology". The polytechnic's academic plan is a present being revised but the director these not expect the bistitution's traditional balance will be molified—sym-parts engineering, one pair science and math-entarity and two nations for social sciences. entatics, and two parts for sorial sciences and arts (this discegards the polytechnic's com-miturear to teacher education, which is now

and the stategards the pulylechnic's com-mitation to teacher education, which is may of course in doubti-The merger with flarry stimulated the poly-technic in another direction. As Mr John hamson, chairman of the social sciences and arrs faculty and the polytechnic's academic stoll development officer, explained: "The pulylechnics that only changed their name on designotion, like Glamorgan, in the long torm were at a disadvantage. The others had to rethink their nganization at the star." In 1975 is was derided to have a two-year "soltling-down period" and an interim org-mization was created. Under Dr Janes and his two deputies, Dr Roberts and Hr F. J. Hybart, there are four part-line executives; Mr G. T. Indun, chairman of the onglavering faculty and polytechnic academic planning officer; Mr D. 1. Even, who combines physi-cal resources afficer of the polytechnic with the chairmanship of the science faculty; Mr Phillips who is Dipilit course courdinator; mid Mr Hanson.

which Mr Hanson, Whether the polytechnic will choose n mate Intensive—and expensive—management struc-ture with permanent assistent directors with functional responsibilities or stick with its present rather traditional mix of strang dep-artments and weak faculties has still not been decided. Staff in the acience and engineer-ling areas seem largely content with the pres-ent system. These in the social sciences end arts where subject boundaries are larg-clearly demarched fevour chonge—otherism Mr Thanpas did ndmit thet many students might suffer a loss of identity. The mass-likely entening as always is a compromise; the present structure left lengely intact but with a strengthened level of faculties spect-imposed.

with a strengthened level of faculties strend imposed. Shortly befare the merger while Barry t's polytechnic's muintelning incel enthully was cut in size by two-thirds, fram Clanareou to the much smaller Mid Glamorgan. In other places the cembination of lorge pathetechnic places the cembination of lorge pathetechnic out small authority has led to conflict—but pot; opmerativ, at the Polytorland of Wales. Dr James seld that they had received "a very foir deal" from the county.

Clive Cookson reports on the progress of the GEE and SISCON "social awareness" schemes Two science sisters take very different paths

The first two or three years of the nf BSc englueering courses in The written units, which are de-present decade saw a notable burst firitish universities, in which one signed to occupy a third of a corning the role of SiSCON-trpe out las November. And of activity nimed at broadening the third of the final year is normally student's time for three works, con-is no bad thing, provided the diverting up again, with the diverties of a grant with the diverties of the student works, which are de-is no bad thing, provided the diverting up again, with the diverties of a grant with the diverties of the student works, which are de-ties no bad thing, provided the diverties of the student works, with the student of the diverties of the student works are de-tied at the diverties of the student works are descience and engineering curriculum devoted to student projects. "This student's time for three works, cou-in universities and polyterbuics, is the only liberal element within the project also operates on a The Nuffield Foundation in particu-tar started several projects to make Brancher, "but it is surprisingly these students more invare of the free in some deportments", of new science degree courses with

from the Leverhulme Trusi.

cal projects. This is felt to be a more productive approach than injecting into engineering studieo porallel courses of enupensotory social educotion, which suffer from two serious weaknesses. First, it is difficult to get good penplo to teach thom because of their low prestige, such further by the hos-iflity of pute engineers; and, second, the links botween the design of physical systems and issues of social policy are frequently not made clear to students—bits ond plees of half digested subject outier litter their minds.

2 No. 26 (10)

ityle ideching motoriolo were pro-duced, including en interesting study of the problems facing an entrepreneur who wishes to start on engineering firm. But today GEE's energies are concentroted on the projects a programme, whose title wes recently changed from Urban Crisis 2,000 to Socio-Techni-val Engineering Projects' Pro-gramme (it was to be known by its acronym STEPP until it was realized that this might be confused with STEP, the Science Teachers Education Programme, The extension of the programme Murdoch has six schools; eovironmental and

Education : Progremme). The extension of the programme Murdoch has alx schools : eovironmental and .

rnese stadents more invare of the bocial context of their work. Twn of the most ambitious schemics batched mider Nuffield's standed into the final year in this financial wing were General Educo-tion in Englneering (GEE) and Science in a Social Context (SISCON). Both hove thrived, and the latter recently flew from the Nuffield nest th find spunsorship from tha Leverhulme Trust. nical, and in these cases GEE pro-jects heve had to be squeezed into

from the Leverhulme Trust. They had the sinte original objective—to produce teaching meterials to broaden the currication --but this common eine has taken the two sisters down very different paths. SISCON is providing teaching/ teorning material in self-contoined units, which are distributed in book form. About half are written by studividual authors and half by pairs of groups. from the Leverhulme Trust. jects heve had to be squeezed into None of the holf duzen Nuffield. None of the holf duzen Nuffield the second year. None of the holf duzen Nuffield the second year. None of the holf duzen Nuffield inspired programmes to reform areas of higher education caugh on with anything like the enthusiasm generated by Nuffield Science in which are distributed in book form. About half are written by Sudividual authors and half by pairs of groups. Manchester Landon Fritylechnic. None of the holf duzen Nuffield isspired programmes to reform arguments about the direction in which he project simuld be moring. Professor Michael Giblions of Manchester University put it this way when he tonk over from Dr Uill Willing of Leeds University year:

The duzen universities and polytechnics that make up the SISCON consuming all offer such courses. Examples include liberal studies in science at Manchester University, integrated science at Stirling Uni-versity, and science and society at North East Loudon Pulytechnic.

Unity has not been one of SISCON's strengths. Some members felt that a few of the early units

Individual authors and half by pairs or groups.
The progromme will take a major step forward next month when the same "engineering the forward next month when the same "engineering to stated out with a wider rectangle heir units. They will he released twice a special has sense "engineering to special science and this hes grawn levond at style. None the levs remove a much better grave that this hes grawn levond at style. None the levs remove a much better grave that here short term priority is and prior and base since the reverse role of bringing and supporting the science filting and state University.
The main thrust of GEE, on the other sized science and the supporting the science to size of mainter al science and the supporting the science to solve a scientific curriculum.
Mew Australian universities 3—Murdoch
New Australian universities 3—Murdoch

is no had thing, provided the diver ing up again, with remety site does not lead to factions, which support for another marks sity does not lead to tactions, which I fear have occurred in some class. It appears that there is a starp of difference in the perception of the role of SISCON between the univer-sities and the polytechnics and other institutions of further and higher education.

higher education. "In addition the chaim is made that the former dominate the SISCON rouncil, thereby imposing their will. Be that as it may, steps are now heing taken to broaden the base of the connecil to include a wider range of representatives. I is hope that this will help to break a down some of the misunderstanding down some of the wisnuclerstanding that has developed."

down some of the misumerstanding that has developed." SISCON has spent about future will be available over the deviation of the projects du not need bla content to qualify. Some has essentially orthodor techns jects with perhaps a 10 p social element, says D fr. Others have been 75 per te-toring du not need bla will be available over the next three rears. There are currently two full-time SiSCON research fellows, br Glyn Forth at Manchester and Dr Russell Museley at Sussex, and the project has enough money to finance a further four research fellows, but the conneil decided recoully to support only two more



Many stars born in these trunk courses?

In the third and last of this series

Australia's newest institution

The extension of the programme beyond urban problems coincided with the end of the three-year secondment from Asian University of GEE's contributor Dr David Brancher, The ective coordinating role has passed to Dr Swenson, though Dr Brancher remains closely in wolved. In theory the GEE approach should fit in well with the structure

The choice is botween perception, cymhul and myth (which ranges from blology to philosuphy), world in transiting (including insights from hierature, social science and physical science), and energy and his science and physical science), The description of paceptant system and mutation in general studies which myth echoes the thinking behind Sussex Univer-sity's language and values preliminary course.

"At the ond of this course, otulents are expec-ted to be able to view the acquisition of know-ledge. In torms of the inter-relationship between end values preliminary course. perception, codification, communication, mythy eod theories; to have extended and examined eod theories; to have extended and examined their own value systems, acquired knowledge as well as intellectual inquiry, increased their obility to express themsolves lucidly; to adopt a sympa-thetic atditude towards areas with which they do not necessarily agree; to have established for the remaining these for future studies."

For the remaining three-quartere of the first year, oudents have a choicu of courses that will meet the prerequisites for part two programmes. The idea is that they should leave themselvee The idea is that they should leave themselvee some room for manoeuvre. Some of the part two programmes are interdisciplinary, frequently transcending the schools: Chinese studies, com-population and world resourcea. Then there are human development (combining aspects of biology, psychology and sociology) and peace frenology (after irene, the Greek goddess ef peace) and combines the insights of law, psycho-

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of both scientific and non-scie Inquiry and on the development of There are also a number of speciality

skulls". There are also a number of special programmuss--chemistry, econopies y history and physics, for example, here is conscious of the need to present encroaching on pair one. The furster are a naiversity responsibility, are studies. And the prerequisites set for studies. And the prerequisites set for two programme must not exceed marti-the student's "non-trunk course" the two are worried about", said Bos are mendations in addition to prerequisites bits in 1181, professor of edecades for the "trunk courses" have been store ince the first year. "What has are staff into trunk courses get the staff into trunk courses get the staff into trunk courses are for the willed, "Is that schools are the stilled courses are been store in the stilled by sufficiently senior store is that they have been treated a jumbur lecturers."

hubir lecture s.".....



David Wałker asks whether the regional conferences can really produce any results

Too many hushed voices as the speeches begin?

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Is "the great debate" going to be just another bongwinded attain of educational voices reading set speeches from entrenched positions listened to by a Government which has atready decided on what it plans to do in the schools? This is one cynical and whilely-while dear of the origin of subtract

modernized at 6.3 per cont, on the basis
 modernized in this
 Matter spectral
 Matt

Resentment is growing at what the colleges see as the universitie? untain escape from teacher education cuts. Judith Judd (courts

Why must k colleges carry the can?

the mottering, of college of eduction lectures agains) the university department, of education have tiser

department, of education have risen to an angry rimble since the fatest round of college clusures. By 1980 the numbers in colleges will have drapped from 114,000 eight years aga to 45,000, including 10,000 inservice places in the uni-versities the figure will rentain strady a around 5,000 and there is every indication that the Govern-ment intends things to stay that way. In 1901 the number of post-wrathate certificate of education



A page open tog

who feel they have

and further education

Declinin

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During the pass stop the nutiversity and pile tars have often ben be over issues in higher & durlying the discontai

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the pulytechnics are not the universities. As in

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is all about. That our university !



object of turning the vice-chancel-lorabin into o full time, sniarled eppointment tenable for two fouc-

Some reeders may recall that addition to his other salary; and Louis Blom-Cooper and 1, with backdated the award to 31 landary, others, petitioned the Privy Coun-cil against these statutes and that in May, 1975, the Privy Council This scented to use to be wineces-

In July, 1975, the deputy vice-chancellor on helinif of the senate, and the court, authorized the pay-ment of honoraria to the vice-chuncellor of £4,668 per manual in addition to his other salary; and backdated the award to 31 january,

From 1836 until 1975 the rice-chancellorship of the University of London was an unpaid onnunl post, the occupant latterly drawing his salary as professor or hand of a ochool. Then in May, 1974, the senate made statutes with the object of turning the vice-chancel. unitorinceil in the White Paper of 11 July. Also I believed that the payments of the honorarla were illegal. So I petrioued the Privy Conneil ugidn which again appeared us three Law Lords.

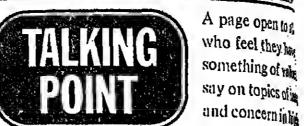
. I digress to say that I was beard (no less than on the previous necession) with the monst contresp repectally by Lord Solmon (the only survivor of the previous triumvirute) who greeted me more as a former neganintance than as a vexulous litigont.

This second perition was not under the statitury procedure of the 1926 Act but to Her Majesty the 1926 Act but in ther Majestip in Council as Visitar of the Univer-sity of London. And this brings me to the purpose of this note. Their Lordships found against me and I would say they were wrong did I not as a havyer lean to the Realist School and believe that the law is what the highest tribunal says it is,

What is interesting is the light which their Lordships' terition opinion throws on their view of the Visitorial jurisdiction. The apinion

stated : The second submission 1" that the hororarium of 64,668 was awarded int o time when noterrsity teachers were heing denied half of an arbi-ration award, and is found in the widely resented ") and the fourth a back program of over 64,000 to the head of a schoul"; show that the numbers sity as to the expediency of paying the honoraria therein mentioned, but is no reason for the visitor to buter-fere with them unless they are Mad by "improper" their Lard-

And by "improper" their Lard-ships mailo clear that they were ----



on the earlier petition which they mineld. There also their approach it seems to me, was whully legalis-tic. And the mored of all that is, We know that the Privy Council, through el oters and so on, is quite willing to impose its palicy on uni-versities when it sees fit. But if it wants not to fwhen, for example,

Second, if the Senate Bonse of the University of Londan acts like the unorfed, overpaid boreautracy it is don't expect any help from untside.

Third, as the senate proposes to pay the vice-chancellur at the level E21,000 pa) and as the principal of the university is the next highest paid person in the university, distin-guished heads of schools and even

speaking of legal impropriety. The author is professor of public This quotation reinforces the anti-tudo adopted by the Privy Council Economics.

Education tribe needs studying

At o timo when there is a vital need for ottention to ha fucused un area of study which whild cuntri-huto to both the intrinsic us well as extrinal aspects of these that the these these that the these these that the these dovelop the individuol and those thot equip him with social skills is sociol anthropology.

Social ambropology is lypicolly charectorized on boing firmly ntteched to the intrinoic component ntteched to the Intrinoic entryonent of educotion, ond rorely finds o place in the curricule of schoois, further, higher, and professional forms of educotion, this probably oo a rosuit of its image as a congiomo-rete of the ruminations of ermechelr enthropologists, cephalic indices, and pith-helmoted Oxhridgo edven-turers. But these notions render o

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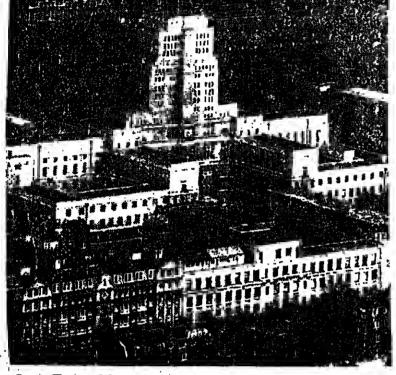
farst, just not your trust in princes. it wants not to twhen, for example, individual people or institutions within the university want to ques-that indiversity policy which coin-cides with Privy Council thinking) then the matter will be put to a committee which consists solely at lawyers in the expectation that they will stick to points of the law. Second, if the Sector there af

a permanent secretary (currently

this mass in mys-versity lecturers diffus administration; rube: that since the pues account of ether test; istrative ability what prosperts are under et

must important. John Griffith turers have the same r ------

garet Mend and Ruth Renedict. In this unalti-ruitural and multi-racial surfery, it is becoming increasingly impactant to under-stand and respect the way of life of those with whom we work and live, rather than to leave this process to the vagaries of the media and politicians whit their predilec-tion to empiny crude stercompes and inaccurate generalizations. The oudy of social anthropology in educotional institutions might serve to counteract their effect. Such o to counteract their effect. Such o counteracting force may produce a more sensitive understanding of others in all areas related to community ond occupational struc-



Senote House-debate over Bill goes on.

A welcome marriage with the arts

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For 30 yoers, educationisto oud erilsts have grown in soparete estab-lishments. From its first feltering steps the Arts Council hos become a solidly based national institution, with its own philosophies, official-dom, and treditions. In ilmas of growth its link with education de-velopments bes seemad tenuous. Education and the arts have had their own ooperete funds, bureau-cracles, ead Ministers. Now dwindling cesources have forced the Minister for the Arts beck into the oducetion establish-ments. Talk of damotion for the orts is in the eir. Thore is dismay at whet he ocen as a loss of pres-For 30 yoers, educationisto oud

fact that there soemed no common lenguage, no genecally egreed goels? Likewise, those of us who tried to incorpocate creetive activi-ties lato the BEd degree too often found that the auto often creative artists end professional educotors had grown so wide that it would have takeo years to find

it would have taken years to find common ground. When I look back I see, in a word, confusion. As public funda have been used to build civic theetres, so other public funda heve been pouced into cducationel drema, wbich has usually taught instruction studies of City University. The author is director of arts odmi-nistrotion studies of City University. Society, and towords an analysis of the atructures of social occasiza-tion and meaning inherent in it. Yet they have still to focus ede-donal processes and institutione. For anthropologists in this country in the deput ment of educational engincering, University of Astou.

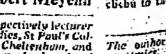
inat the trafficient theatre per-formences housed by the civic theatre are irrelevant and dull. As the numbers of students inking courses in, say, literature and music hea incroused, so has the public aubaldy of writers and nusicians acomed lucomprehensible to must of the nawly educated.

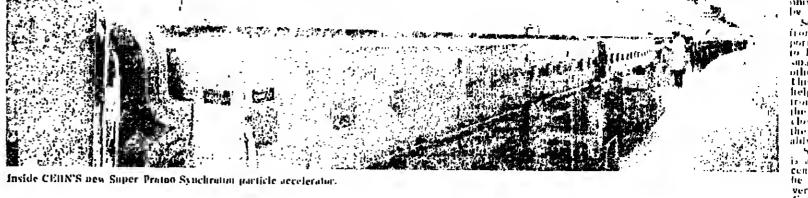
that the traditional theatre

the nawly educated. Separotion hus meant that ettempts to create an informed andiouce for the contempurory arts, and ottompts to educate the young, have been too often at creas pur-posoo. Indeed, ofter 30 years of growth in orts education, and 30 years of steedy growth in public subeidy for the arts, the cynicol might note that the only audienco which is consistently growing is the eudience for the third rete. The new hardships seem to use to give us an opportunity to end some unnecessary frustrations. In educe-tion and in the profossional arts we can look afresh at some of the costly experimento. More impor-tant, we can at last grasp the nettio of netional policy.

ing excitivities in the two transformation i

alisence of support insi-mul hierarthy. Ar milish when the name cumararenco the sport, ditinns of service star-relatively few suint, do for subst





Norman Dombey argues that as the costs of scientific

centres should, where possible, be based on universities

research increase, future regional and national

Learning the lessons of CERN

"The repart of the working group makes clear that the main problem for the country is rebether the re-sources can be afforded, and for scientists whether the resources necessors to allow the rest of science in develop properly can be suisfacturily shielded should the rush of so birge a project the Custa of so hurge a project the planned new acceleratur in CERN1 esentute."

Cunneit for Scientific Policy, "Second Report on Science Policy, Cound 3420", Detabor, 1967.

"The second (question) concerns the relative extern to which in-cccessed expenditures on scientific research is reflected on the one hand in increased research of or hand on the other hand in higher managed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of stantly anazed whenever I visit at the over-expanding corridors foll of other theoretical high energy physics ful research in bosic science is and nois it merely duced, and how fur doas it merely to use is more than the budget for all live national laboratories in high energy physics in the United States, which includes not only the Fermi Laboratory oenr Chicago where "The second (questjun) concerns

A diract result of last year's devn-A diract result af last year's devn-turers lave the same ' parts. Neverthelest be cations, Largely beam ter bair seriar promote al lecturer and abait an ilegree level tourset, in degree level tourset, than prisspects are like '' neverage'' polyters.

These increases total more (in real terms) thou, the £7.2m spent in 1975-76 by the science board of the course minimum 1975-76 by the science beard of the new input in about 5 SRC far research grants to all uni-tive unter surprise 5 SRC far research grants to all uni-tive must surprise 5 or combined fields of elecuniarty, inny much resurp in bloogy, mathematics and physics takes place in the inter-terior, but, surely inter-terior, but, surely inter-terior, but, surely inter-terior in the protocol The day protocol The day protocol the surprise for Scientific Policy ten years ago publish while is the concertue; to meet this cash ahenve uf support inter-tory research groups for August. now rescerch grouis lost August.

If cash limits are imposed, it becomos clear even in o non-crisio situation flar funding for one pro-jact in cluvays at the expense of "unother. In porticular, an incrense in expenditure in big science-for exemple on CERN-lo equivolonit to

 The search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is provide in the production of a negative for the search is production in the search is productin the search is production And to insulate inter-react the entreaction system to produce a social ded to react and treas are heining heining inter-reaction of what has traditionally been considered a likeral subject. The the subject is anthropology is of treas-induced in providing in-understanding intr whose bosket Mr Callegian scents is be plocing most of his cags. Kristine Mason Ther Meyerna the Mason th

uvel ?" Horry C. Johnson, "Techno-Jogical and Economic Interde-pendence", Mermilian 1975. diract result af last year's devn-nation of the pound was that the riliah subscription to CERN-the uropeon high evergy nucleor hysics centro in Geneva-lucreased row £184m lu 1975-76 to an estima-ed £234m for 1976-77. Proportion.

a refusal of funding of tens, perhaps humbreds, of promising projects in science based in universities and pulytechnics. Yet Professor hidusop's question is very relevant in CERN. Salaries at CERN are enormous at all levels; additivistrotive and supporting faci-tions on basic scientific research ---flat is on scientific research which has no obvinus ur short-term duore is somewhat on the low side compared with other industrial compared with other industrial

ness" poraliels the government in-vestment in big technology; over St per cent of the spending of the De-portment of Trude nul ludustry on civil R and D in 1972-7.1 was in the fields of nuclear power and acra-

space. This similar is the heritage of the 1950s, Sir Alan Contrell, has written of that period that "In 1952 the way forward for the country sormed obvious, Science would tell you what could he done and tech-nology would say how to do it... And so the great projects flourished and multiplied—TSR2, tho Streek, VSTOF, alreraft, Concorde, Caklee Hall, Zena, Atlas computer, Ariel satellite, radin-telescopes and nucleor necelerators,"

The reasons that governments fund basic research ore not pri-marily scientific, but technolagical and elucational. It is hoped that successfor research in basic science will initiate or accompany success-ful research and dovelopment in tochnology, es was the case, for readar or the transistor. It is alse expected that a training in basic science at a high level will give a flexibility in outlook which will allow people to deni with future terms exist, rather than just pro-vide a professional competence which may berome out of dute in a short time. In the wards of the recent report of the Hause of Commons' Select Committee ou Sciouce and Tech-nalogy, "the darelapment of further committee ou Sciouce and Tech-nalogy," the darelapment of further committee ou Sciouce and Tech-nalogy, "the darelapment of further committee ou Sciouce and Tech-nalogy," the darelapment of further committee ou Sciouce and Tech-nalogy, "the darelapment of further committee ou Sciouce and Tech-nalogy, "the darelapment of further committee ou Sciouce and Tech-nalogy," the darelapment of further committee ou Sciouce and Tech-nalogy, "the darelapment of further committee ou Sciouce and Tech-ment al knowledge ond the trophing the state of the recent reportion of the fraction of basic re-search performed in the higher edu-cotion sector of various countries, the state of the recent reportion the state of the recent reportion of the fraction of basic re-search performed in the higher edu-cotion sector of various countries, the science commit the state of the recent reportion of the fraction of basic re-search performed in the higher edu-

In an one store the second of the receiver reporting to the second of the relation of the receiver relation of the

and a set of a locable to attach w itself. So what lessone from this crisis? First, the pro-portion of mode allocated by SRI

to log science atom fall relative to small agence of the next few years otherwise, these crises will recorthis process in any case will be helped by the closure of the elechelped by the closure of the elec-troit synchrotron at Bareshney in the act few mainles, and the closure of the protoit synchrotron at the Rathertorid Laboratory, presuot ably in the next few years of so Secondly, in general where there is a used for regional and national formation in the former should be former.

contres in the future, they should be stored if all possible at un-versities. This is so because for fit is cheaper. The overheads are divary measures are internetics are always much less of a minersity, and the pressures referred to by Professor Johnson can be better resided (ii) The educational impact of the

centre will be maximized. (iii) There will be more chance of profitable interaction between dif-ferent sciences, and between basic ond opplied sciences, and between basic ond opplied science, in an institu-tion where several such disciplinas exist. So the likely technological impact is greater than in a slogie

subject regreater than in a stugge subject centre, (ivt The university will still exist when the useful life of the machino bas ended. This will help prevent demands for a new machine, regard-less of wider scientille or national priorities. priorities. Thirdly, where International and

national contres exist uniside universities, os nuch work as possible simuld be subcontracted to the university groups working at the centres, for all the roasnas enove. This is the American practice in high-enorgy physics, and is one important reason for the comparetive cheapness of their research programme.

the comparative cheapness of their research programme. Finally, I abould lika to mee a programme of flexibility on SRC, and, perhops mora lopportailly, on the Governman. If funds for big science do shrink over the next few years, then it is important to remember that money for science is not the only resource which is ilmited: bighly qualified acientists and engineers are also e limited that SRC will help university groups now working in high-energy physics or other areas of big science who wish to develop new interests to do so.

DescriptionPhilosophical Fragments have been in second for the harp.Mr Streuwson hoa ield o logical cursa on
Tho thought of a navar-embodied
pereor:
Such e uaked soul juot wouldn't be vlable—
But worse, it'd be unidentifiable.Philosophical Fragments have been in second for the harp.
Of all the gurus of whoso faet I sat, Waismann was most lovable to a sould with a sigh end said in his gentie Cantrel Europeen guover i books ond tell me what was in them; is books on identity and thus become e respective in the method for the bullet.

to bo almo mater of my mlud. Actually the Oxford of my doy, abounding in Thorpes and Wil-llamsos end Doys end even the occasional Boyle, was still post-wor. I was still in the army on domob leave my first term. Toccasionolly geve my first term. Toccasionolly geve my first term. Toccasionolly fundor fellows en Capteln Smett. Oucen's was colonol, the most popular Sergemit. After command in tropleol Em-

Witigenstoln ; now scored for harp pire, Oxford occured childian, only yat no doubt it was e relief to rogross from incipient old oge. Its spices will still magnetize world acholers, end therein must lie its

For h tho cad, h is people who count in univorsities, not dunniff-cationo, such as the Univocsity Grouts Committoo parforce per-forans, together with thoir Trojau horrow

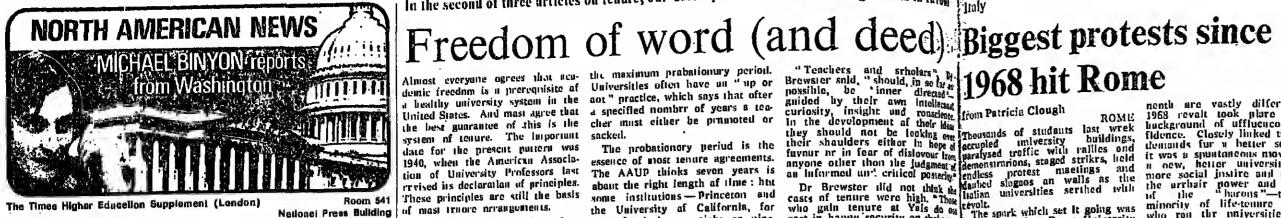
Niniau Smart

The author is professor of religious



THE TIMES HIGHER EDUCATION SUPPLEMENT. 1823

In the second of three articles on tenure, our correspondent looks at the arguments in farme



Tel.; (282) 838 8765

Woshington OC

Genetic researchers win important victory

research at Harvard end the Masanchusetts fastltute of Terhaology, bot hos imposed safety regulations that use far more striegent than those proposed by the govorument last eumuter.

The guidelines from the government's Notional Institutes of Health prede DNA tesenrch laboruturies from +P-1+, aimilor the an ordinoty school leboratory, to +P-4+, enclosed by nir end showar chombers. All potentially dangerous ond unitrodictabla experiments, including all those using DNA from mammels, have to be ronducted in at loast P-3 luborais now constructing one.

host orgenlams lo some of the danscrous experiments bo specially mutated so that they have only a minute chance one in 100 million mot surviving outilds the laboratory environment.

The Cambridge ordinance goes the host organisms is seen es all the government egencice and private greeter because almost ell the basts industry under the guidelines. The used to DNA experiments in the basis industry under the guidelines. The used to DNA experiments in thi commission report will be ready how are E. Coll bacteria, which in soon, and Congress ly exterted to their bornal store live in the intes-thes of humans. The feer is that future.

The Cambridge City Cauncil has o genetically altered E. Cali escap-formally lifted its ban on generic ing from a laburotory might return to intestines through the water supply.

Geneilclists at the two universitlas complain that the EK2 variant is difficult to keep aliva for experi-menta, and that NIR cortification of EK2 cultures is cumbersanto and time rnitsun

The Cambridge ruling has Important implications for both sciontific research and local continumities. Similor legislation is now expected in university com-munities such as Ann Arbor, Michigan, Pain Alto, New Haven, Connecticut, and Pravidonce, Rinda Island, where similar research is heing condurted.

In Californiu the state legislatur ronducted iu at loast P-3 lubora-is now holding hearings on the is now constructing onc. Tha guidelines also lusist thet tho lost otgenisms lo some of the dan-tost otgenisms lo some of the dangoverning such genetic research, ond a cluzcue' committee like the ooe at Combridge is being formed in Princeton to examine the univer-dity's decision to a sheed with such research.

Last September President Ford The Cambridge ordinance goes task Schember Presenter and requiring that all P-3 research and requiring that all P-3 research uso the altered orgenisma, known as EK2. Tha need to mutate investigate ways of binging all

in gonerel not exceel soven ycars, beginning with the first appolatment to the runk of fulltime instructor, including within this poriod full-time service in all institutions of higher education.

Sn n tuncher who has held fulltime positions in other institutions should get permanent tenure In a new acudemic pusition et once if he has served elsewhere seven years.

The probetionary period of sevent years can be extended only If a teacher after probotionary servica of more than three years in one oc more plares egrees in welting that his new appointmont is far, o new probationary period of not more than four yoers. Since a full yeer's notice la required, the tceeher in offect is assured of permanent tenure in his new poeltion if ho receives no notice of noe-renewal of his appolnrment before the end of his third year of servire.

These rules ero the strict interprotetion. Many colleges hevo adapted variations. For example, they often only give tenure after promotion to the renk of professor. The AAUP agrees to this if the pro-motion to tenure positions fe within

Amost everyane ogrees has eads de healty university yets of the back yarman prebationary period. In maximere of his is in the best yarmane of this is in the person provide the best yarmane of this is in the best yarmane of this is in the person provide the best yarmane of this yarmane the university is for the provide the person provide the the scale of the provide the person provide the the standard of the provide the person provide the the scale of the provide the person provide the standard in a traver any warmane of the standard the scale of the provide the person provide the standard the standard the standard the person provide the standard the standard the standard the standard the standard the person provide the standard t

a serious judgment at the end of it. Tenure is generally-considered e guorantce of appuintment until refirement age. It is not an ebso-lute protection against diamissalflooncial exigency, physical or men-tul inraparity, some frightful act nf norul turpitude or persistent neg-loct of ell university responsibilitics -have occasionally resulted in "negotieted" termination settle ments, but on the whole universidea are extremely reluctent to sack a lenured tearher. The attempt can

lead to an exponsive lewsuit. The defence of tenture usually alls into two categories: the need for job security in order to draw good people into accedomic life thet is underpaid by comperison with industry; and the need to ellow teachers to say and write what they think without fear of reprised or dismission.

The accord argument is especially telling in America where the havec caused by the McCarthy ere, espe-clelly in the acedemic world, is still

nightmare to some. Kingman Brewster, President of Kingman Brewster, Fresident of Yale, argued a few years ego that while tenure dld to some extent protect o university from threats of politicans, texpayers and even occasional alumni, there was a more subtle threat to academic freedom which tenure succossfully resisted. This was the feeling of belog behol-den to senior professors and deaus den to senior professors and deaus for favour or even survivol.

ilberul arts. Lurkily, becaus d'These randinetione curi on taken ilberul arts. Lurkily, becaus d'in various paints during the rourse, tenure it could not be dons a . While the encouragoment of their

Ilberul arts. Lurkly, becaus dianese rominetione can be taken is various paints during the rourse.
 Itenure it could not be dons as a various paints during the rourse.
 Acndemic fashion elso took me sudict for, and sat, examinations insidious forms: there were stot; in the encouragoment of their professors, many students held insidious forms: there were stot; in the tame subject for several pointical preasures on a teacher by years running, uot in order to necommodate bis honost perges cheat, hut because acad, year the tives to the conventional wisda subject wes studied from a differing the round of the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional wisda subject wes studied from a differing the conventional distance with tenures bet into the subject of the

New York fights to retain two graduate programmes

The Education Dopartment last faur rofused to "register" two gruduate programmes in English and history et the Albeny campus, becouse it seld they were not oca-

No education courso can be offered in New York unless ic is registered. The State University

The Education Department last yeur rofused to "register" two

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Women intake

The judgo flatly rejected the diverse of women entering greduoto and professiouel schools has goe up so fast in recent years that eagar support of other universities in New York, which did not went to see SUNY being treated es a speciel case.

No eduretion courso can be offered in New York unlees to is genered. Tho Stata University disputed the right of the Commissioner's office asys is expected. The Stata University disputed the right of the Commissioner's office asys work to expected the commissioner's office asys plans: to expected the comments was now being product of women orse ubour 75 per office adding of the face that is too many freducts progremmes since office asys thore is a ponel of allatinguished reachers from other states, who report to the states, who are not known, the action was any university offering doctored values accounted for out and the transmissioner the product actes the course work and the second the states, who reaces there acclined atter the first sear. All other universitios, both public and private bave accepted the penel's verdicts and have usually strain and condermed programmes out and the transmissioner the product actes authority to submer of accurates. All other university of New York has bode given 202000 by the US Office of Coreer Education of the accepted the product actes authority to the counter, from 3500 to 5200 to 5200 the years of the count of sears advanted by the two dovelog as model of escere advantation the country.

study and choice of job'

body, examined ever 4,000 gradu-tes, all of whom begeo college in 1961. To the question whather their educetion had given them the akills ocedad for their curredt jobs, tonly 38 per cent replied thet it had beon "very useful", with 50 per cent reporting "somewbet use-ful" and 12 per cent answering 0," not at all",

They were less enhusionic about the usefulness in developines in developines in developines in developines in developine in the set of floding a good job.

Pass rates. Older students body of undergraduates in element. Weight Classified as over the example, the general pess-the dear students in their 50s. 1975 was 65.6 per cent. But the artually glving older students in their 50s. 1975 was 65.6 per cent. But the artually glving older students in the pass-rate of 60.8 por cont. Ist alisiva nominal entrance for the students to here inculation. Out a pass-rate of students to here inculation. Out a provided interval age students to here ist.

Study and charter of the unexpected finders make frequent use in their jobs of the unexpected finders main subject, they studied ot college, eccording to e recent survey. They tend to nae their non-major rourses even less. They elso find the length is a little more enhuised the boat the benefits of libral entry and the results for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability to think clearly and the result for tetriery ability for the start wither ability to the start wither ability to the start wither ability for the start wither ability for the start wither ability to the start wither ability for the start wither ability for the start wither ability for the results from the start were start wither ability of college-learned for the results from the start were able the results from the start were about the start wither ability of college-learned for the results from the start were about the general there also of the results from the start were about the start ability of college-learned for the results from the start were about the start were about the start were about the results from the start were about the general there also of the results from the start were about the start ability of college-learned for the results from the start were about the start about

They were less enthusionic about neglected gooral jobor its usefulness in developing loeder- such as communic ship quelities and the ability to handling of figures a think clearly.

But the currents running under- neglect. Naxt week t Alternetives la tenut

and despreation, the mean on the other, are agreed that reasons the near-cerumity of never finding University Centre is now completely out of step with the rest of Danish to the rest of Danish ane for which one is qualified. A out of step with Irading sorthogist has warned that higher education.

There is considerable contribut and lark of a rlearly defined move-ment. The extreme left-wing su-denr groups which were born in 1968 have now only a limited fal-lawing. The Communist Party, which now indirectly supparts the Government, end the trade unions are considered accomplicate if not are considered accomplicee, if not an integrel part, of en obtuse and repressive power esteblishment.

The Communist project for uni-versity reform, although it gives late 1960s, versity reform, although it gives students more voice in university government than Siguor Malfatti's, end involves community represen-tatives and uniona in university affairs, is considered little better than that of the Government.

While Signor Malfetti's plan Is attacked for ettempting to intro-dure the numerus clausus in cordure the numerus clausus in cert tals cases, the Communiste ere equally strongly criticized for want-ing to control numbers more cubily by e system of incentives and dis-lucentives. The students' cunclu-slott is tint, one way or another, they are to be channelled eccording not to their wishes, but to the re-quirements of a capitalist-dominated labour morket. One striking contrest last week with the 1968 situetion was the atti-tute of Rome University's now Rector, Profeesor Antonio Rubert, e Socialist. Instead of deploring the

with the 1968 situation was the atti-ture of Rome University's now Rector, Professor Antonio Rubertl, e Socialist. Instead of deploring the studente' ecclous end calling the police as other rectors here dano in the past, ho seized the oppor-tunity to go to Signor Malfatti and Primo Ministor Giulio Andreotri to point out thet the violence was only the result of the critical situation in the university due to years

Mike Duckenfield, recently in Copenhagen, visits the controversial Roskilde University Centre

Innovator or 'Marxist Sunday School?'

future, both the government and niversity authorities, on the one

In many ways it always has been ; flyst, os an experimental madel officing radically now causes and teaching methods and later, ufter a surcession of serious laternal disembarrassing anomaly defying gav-eroment uttempts to bring ligher eduration under tighter central control.

" A monument to the affluence of the 1960s", os one of the centre's three external rectors, Prnfessnr Erik Stig Jorgensen, calls II, RUC's ond two-storey prefabricated build-ings stranded in a field four miles outside Roskildc-illustretcs now much plans have changed since the university was cooceived in the

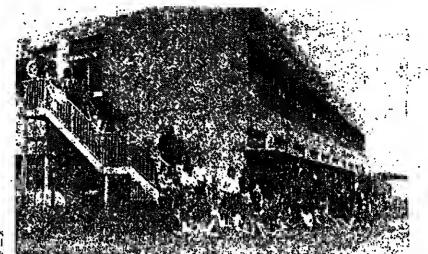
As a new campus university, which was expected to house 8,000 students by the early 1980e, RUC was to grow to neet new urban development in Rocklide, the com-munities joinlog in a complex of Sport, recreation shopping and sport, recreation, sbopping end aociel fecilities. The centre was

ourth university wes made in June 970 following pressures on existing Institutions created by o messive oud virtually unrestricted increase in edmissions during the preceding

At the same time it was felt thet studies should be rostructured to avoid early specialization by offering broad foundation conress, which it was hoped would reduce drop-out rate cellmated as high es 60 per cent at older universities. Additionelly, meny hoily-debuted

Additionally, many holly-debuted innovations such ee group work, i greeter student participation, pro-blem-nrieuted project work ond studics were to be put into practice. The kay oin wes flexibility. Different types of study—academic anit vocational, short und long, broudly hased and specialized—were to be integrated, students were up

West Germany



Staff and students outshie one of Itoskilde's " houses "

social work, rescarch, munngchient and nhouning.

It is these basic studies which a surveysion of serious laternal dis-putes culminating in last year's the controversy. They are based near-closure by Parliament, es an on project work, students chousing a problem to investigate on the basis of their own barkground and experience. Rather than make this fit into the theories of ano disci-pline, theoretical knowledge is drawn upon from eavy subject to drawn upon fram eny'subject work pragresses.

Projects are supplemented hy other courses within the three audy areas ond, until recently, all evalua-tion was based on internol continuous assessment by teachers and the students themselvas.

students inemselvas. Students usuelly work in groups of three to ten. Between six to e dozen groups, totelliog about 60 students, then form sociel end study units known as "houses", eech of which bas its own teachers, e secretery, common room en study fecilities.

study feclilities. Conflict began aven before the first 650 students started work in September, 1972. The first rector, Professor Brling Olsen, a Social Demorrat, wonted centrelized decl-sion-making but was successfully upposed by the overwhelmingly young and progressive administra-fors he had bired. They wonted decisions left to teachers end stu-dentis.

Professor Olsen, who wes subsequently defeated when he stood for re-election as rector, has become RUC's leading critic-celling the centre a "Morxist Sunday school" end criticizing academic stouderds as being too low.

By 1973 the centre was being affected by the economic recession. Phase four of the building plans —there were supposed to he eight phasos—was postponed first for a were supposed to he the super year and then indefinitely. At the seme time it was decided not to establish courses for trainee com-preliensive school teachers, though those for upper saenndory school teachers were to be kept. Expansion was soon at a stand

was soon at a standatill. A year loter edmissions dropped to only 400 ond the centre woe under attack as a heven for Morx-ists. Besic courses were criticized for ullowing students to spend as much as half their time on planning their projects and for falling to re-late to trutitional courses olsewhere. The crisis came to bollow point

The crisis come to bolling point 1975 when the nawly-elected

However, fell were progressing too slowly and got "basic studies" prior to specialize-tion leading to cureers in teaching, with unlimited powers on to at the with unlimited powers on top of the existing edministration.

New examinotions were outour ceil in assess the new, ubligotory cunter work, students refused to ait them and 203 ivere expelled. This sparked off. nationwide student domnastrotions and the centre wos oitly suved from cloaure by two votes after a full day's debate in purlianient

Eventually the students were reedmitted and the exams went shead. But a further crisis came last autumn over attempts to introduce new curricula. While these were eccepted for the humenitice ond nutural sciences, deodlock occurred over plans for the social sciences.

The government has now decided to helt intake to the social sciences for a year and 10 teachers are to be made reducedent. The rectore deny ariampis to weed out militants, but senior teachers are currently threatening to strike. They fear permenent closure of the farulty.

One social science professor, Ole Dybbroe, one of the critics of the reorgenization, feels thot Roskilda bas now become "out-dated". He puints out thot with only 1,600 stu-dents and e reduced intake this coming automum, the centre will only coming autumn, the centre will only eccount for a tiny omount of the totel eduissions of the five univer-alties. It would be small enough to close completaly without cousing more lion a ripple through the rest of bigher education of higher education.

The external reactors huve recently presented a draft plen to Mrs Bjerregeard for the future of RUC until 1984. It forosees intake increasing to 600 a year from the present 450 giving a totel of 2,500 students, the introduction of somo new courses and the building up of groups of teechers copable of teking cars of specific disciplines.

Bach of the three study oreas should be about the some size, with heuveen 50 end 80 teachers cum-pared to the thresent 62 in sociol sciences, 47 in the humanizies und only 27 in natural sciences.

Whethor time will be allowed to itoel will depend on teochers, stu-donts and politicians. RUC has few political friends and though the Social Democrat government is the social beinocret government is cuminited to keeping it opon, the right would like to see Roskildo bo-conic an affiliato collego of Copen-hageo University.

Student upinion is divided. Many brandly hased and succialized—were in 1975 when the nawly-elected see the centre as a loat, cause poll-to be integreted, students were in be able to decide how their studies should proceed and borriers be-tween sublects were to be removed. The course as well as medium term courses as well as monour dogress and postgroduate courses end for that changes then its founding alms gredually humanities, eociol sciences end Ritt Berregoard feit that changes

'Little link between field of Good results will mean more places for mature students

Water in the starting of the star

Extremists' Decree entering sixth year

win y his site



HIGHER EDUCATION SUPPLEMENT New Printing House Square, London WCIX 8EZ. Telephone 01-837 1234

The great post-school debate

The Great Debote on schools, which courses at a high level are schools begins in earoest today with the thut neglect the practice and appli-ficat of the Government's regional cation of basic manipulative skills. conferences, ought not to be left to teachers, industrialists, professors of education end Whitehall manda-rins. The universities and polytechnica have a crucial role, too. For hich have a crucial role, too, ror higher education is one of the major coosumers of school leevers and, without its cooperation and understanding, many of the reforms that are being proposed for the schools could be still-born.

There is a tendency in university circles to assume that the debute is about how the schools can he be about how the schools can be persuoded to return to the academic standards of former times. The re-sult, it is essumed, can be nothing but good for the universities. But these are not the terms on which the Prima Mioister lounched the debate is this Ruskin College speech aconge is his Ruskin College anecch noc ore they the terms on which the Department of Education and Science has continued it in the guidelines it hos issued for the con-ferencea. A quarter of the confer-ences' tima is to be concerned with "School and Working Life" and, in its background puper, the DES notes the criticiam that "the acinol system is genered to promote the low system is geared to promote the im-poctonce of academic learning and corcers with the result that pupile, especielly the more oble, ere pre-indiced against work in productive trade and industry."

If this criticiem were to be met, the implications for higher education would be momentous. Britshu has the shortest first degree cour-ses in the Woatern world precisely because the schools promote aca-demic learning. British universities have useditionally relied upon school sixth forms to do half their work sixth forms to do half their work for them, and these in turn have relieil upon the lower achouls to prepare students for their work. The cost of three-year degree com-sea in physics and chemistry, for example, is a achool science syllu-bus that starts tackling the hier-archy of obstroct acientific concepts st the oge of 12 or 13. Tho cost of st the oge of 12 or 13. The cost of high levels of writing profielency in foreign langunge studenta entering

The most striking development in British schooling since the Wac is that more echools and more the inat more echoors and mure pupils have undertaken a more acu-demile approach to mora subjects. Why elae would passes to the predomination buyer is a solution of the pre-dominations have risen so drammi-cally? Arguably, this is why employers fied that school leavers now lock more practical skills. The school day, ofter all, is finite. More French ar O-level chemistry must mean less time spent on basic akill

akills. The advent of the comprehensire school may have dlluted academic learning but, more significantly, it has spread it atore widely. Had the secondary modero school been retained, it would have made little difference. Now thot higher educa-tion la open to eround 20 per cent of the sge group, few teochers would be prepared to dauy their pupils the opportunity of competing for the spolls, evan if it means a sylla-bus that leaves them Ill-ennipped to take odvontage of the consulation prizes. prizes. Schools are unlikely to introduce

o more practical curriculum torlly as long as a high-level oca-deonic prepertion is necessary for entry to higher education, A-level entry to higher education. A-level courses in engineering science have already flopped hecunse university dapartments, havo continued to insist on A-level physics. If, on the other hand, a practical curriculum, were imposed on the schonis through some commou core curriculum, the nuiversities would be the losers. Either way, it is in the interests of hoth partices — universities and schools—to have spikesmen for lighter education involved in the danto.

Grent Dabale, about whethor and how thuir own courses could he made more practicul and wardly. The THES will be explaring this neglect ocni enmpetence. The cost heginning with Perfessor Chilver's of atorting university mathemotics contribution this week.

Resources for science

Ever since the Scionce Research Council took over responsibility for funding scientific research from the Deportment of Scientific end Indus-triei Research in 1965, the coucell has faced the problem of reconcil-ing support for research pro-grammes in its own establishments with thet for the scientific activities

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research mas increasingly restricted in some or essence in pro-grammes in ita connective based programmes of a Last automn's debacle over the mounting costs of the CERN sub-acription—when the falling value of the pound led to o temporary mora-torium in new research gramme, of a ting in propeals—including that for an electron positron ioterace in the sole of the same propeals. In the second left in the

as CERN ond the Rutherford Labor-atory. It-would then be possible to deploy the resources of those facili-to the country's scientific and rechoo-it logical effort, and leave the SRC to is . concentrate its opergy on amporting . science and engineering in Britalo's universities, and, polytychnics, and the natural boundarles pf a subject); . Aberdean University.

LETTERS TO THE EDITOR

Max Beloff and the AUT

Sir,—We of course regret my resignation of University Tenchers, especially of such a long-standing and distinguished member as Professor Helaff. Si-Si-Si the Oxford AUT condemned the grade of this important the Oxford AUT condemned the grade of the oxford AUT condemned the grade of Stanlents to which he refers on of Stanlents to which he refers on the other that the for the most part, she is the fact that the for the most part, she is from any source magin recement with the National Union i Students to which he refers on an grounds he gives; we submitted i motion of rajordinting for the source expression of the submitted is notion of rajordinting for the source expression of the submitted is notion of rajordinting for the source expression of the submitted is notion of rajordinting for the source expression of the submitted is notion of the submitted is not the submitted is notion of the submitted is not the submitted is the grounds he gives; we submitted December rouncil; and the agree- sur Relaff's article. ment is not recognized by us.

On alfiliation to the TUC, while moy be regretuble that a professional association must look more and more to the realities of hurguinspeaks, with the strangest voice tu increasing disadvantage. The universities themselves are

dustrial" altuntion in their reluilona with their stall, academic und ond neutemle-related staff. This and wanten of good will schlain it. need not entuil my lack of hypliny Yours sinterely, to the iden of the university.

I know nuthing of the pusition of the University College of Buck. Honorary secretary, the facu of it there would seem to Teachers, bo no reason why the suff there 41 Wellington Summe, should not form a local AUT. Hat Oxford.

uutes fram sumiwich courses and implant Oxford wuys. 43 per cent of those no full-time

the figures for graduates from tru-distant full-thate courses in both seems to be so sectors. The differences are not from the pust-between universities and polytech-Yuurs fuithfully

Sir,-We of course regret my resignation for the donial of this, on further Sir,-The letter from its

In particular, her happiness with the expansion which Professor Relatif criticizes, and her total acceptance of the Robbins view of the universities, are to many the mirersities, are to many fessors, ing, it has to be recognized that in of us intering deplocable attitudes. continue autside the body which of us atterly deplacable attitudes. Ile says that the sort the governmant of the day as far "we must cuntinue in farge links na wage and salary carners are ron- with the working class "----but, cant as it is, there is no particulor reason to doubt that it represents her own views and those of some members of the AUT executive. The universities themselves are her own views and those of some being pushed inevitably into an "in-mentbers of the AUT executive.

In essence, Professor Beloff is nott-neodemic alike, and the AUT is the only hody which can cope with this on behulf of the aculemic

JOHN GILLARD WATSON.

Oxford Association of University

and represents an extreme to wh. few history departments have ever subscribed, even through many of their staff have been tixford graduates what, having been cast out of what thuy felt to be paradise, sough cunsolation thereafter in seeding to

43 per cent of those in full-time charses mayo directly hun employment on leaving polytochnics contraining and the sectors of the same full miversity degree graduates".
Biven thu tendency those days to base of the same full miversity degree graduates.
As 1 have pointed out before the figures for sundwich caurses in buch as the planeering work of the figures for graduates from true biological for the same for miversity in developing tenders, the graduates for miver how and so me bistory caurses, there from the differences are not seens to be some how and the public of the same for miversity in the some how and the some how and the same for miversity in the some how and the some how and so me bistory caurses, there from the public of the public of the same for mire how and so me for the some how and so me for the figures for graduates from the some how and so me for the figures for graduates from the some how and so me for the figures for graduates from the some how and so me for the some how and so me for the some how and so me for the figures for graduates from the some how and so me for the some how and so me how and so Given the tendency these days to Yours fuithfully,

MICHAEL BUSIE. History department,

Manchester University.

Back has been achieved in the sequences and nearbow with could be facing to approximate are low multiply worthy of bis fact and particulation. This fact has such any sequences and sequences are low multiply worthy of bis fact and particulation. This fact has such any sequences are low multiply worthy of bis fact and particulation. This fact has such any sequences are low multiply worthy of bis fact and particulation. This fact has such any sequences are low multiply worthy of bis fact and particulation. The second sequences are low multiply worthy of bis fact and particulation. The second sequences are low multiply worthy of bis fact and particulation. The second sequences are low multiply worthy of bis fact and the particulation. The second sequences are low multiply worthy of bis second sequences are low multiply worthy of bis second sequences. The real problem, as a conservent face worthy worthy second second sequences are low multiply worthy do the second second

Senate layme

ests of the university at he ever, it can hardly be represent u lay elements reasons. This elements derived from the locality recuring that the TUC sets federation of lightshilds other hadies, should have tatives and take some pair university both for the by can give, and for a bills

vlew. The qualification for big to do this jult is their ouse not whether they have Bat but whether they have here or nut. Some convocator is may have these proper 6-tinus, but only incidently, give all the appearance is hursybodies, who collect test herships like pelts. May, he disqualified if there we quirculent that their depe mony was not in the dim m

last, the present (fuculty) members are 18 sure, with no other gradest sented. According to M these senate members de F the AUT view that the karst staff are unrepresented. If the calls "nurrow and our

Secretary, London committee AUL I Pembridge Road, London B-

Future of physics

Sir,—I wus, naturally, ref osteri in reed your this (*THES*, Fehrnary 4). The and cuuncil of the base Physics oro well as at declining number of student in mismion in the utime.

Executive secretary Tho Institute of Physics 47 Belgrare Square, Long mare Hiller b

THE TIMES HIGHER EDUCATION SUPPLEMENT



Ilr Heory Chilver

Henry Chilver, vicechancellor of Cranfield Institute of Technology, contributes the first of a series of articles on higher education and the needs of industrial society

'Relevance' must be seen in a long-term perspective

in balance-of-payments and industrial rela-tions problems, but also to the whiler ques-tion of how our education system should help productive industry and the generation of the patient's wealth.

The Confederation of British Industry, in a recent report, aponly criticizes educational attitudes to productive industry. A recent report of the Select Committee on Science and Technology discusses exhaustively the apparent failings of higher education and research in the engineering and science-based industrics.

industrics. That productive industry is now so squarely in the centre of national publics, and is bringing education into the discussion, is itself an important development in our thinking about our present nutional situation. In this discussion, what are the fundamental problems for education and, to porticular, for higher education is hung to adopt that

for higher education? At the nutset, we have to admit that throughout education generally in Uritain, the role of productive industry in building up national wealth is very ill-understood. Since the Second World War, schoolteuchets have been very successful in bringing new concepts into their teaching: young people ore only the conscious tand correctle set of the importance of social welfare in a humano eociety.

eociety. But, alas, teaching has not grosped the But, alas, teaching has not grosped the vital importance of trading with other coun-tries so there we can contribute to inter-national development and, in the process, incremse our own wealth. Portly—and I write not only as an academic but as one connected also with Industry—mur own industry is to be blamed for this; industry describes liself in public in terms of "profit", "loss" and "growth", rather than demonstrating the way in which productive industry enobles us to develop the resource a necessary to finance the widaning range of social programmos most people wish to see developed. Some attempts ore baing made the remedy this, and it is programme "Understanding British Industry". But a major long-term task shead of us is demonstrating in teachers the vital social role and relevance of produc-tive Industry.

the vital social role and velevance af produc-tive ludusity. Before we look at the problems which are posed for education and educationists, it is worth examining briefly the nature of tho fundomental problem facing productive indus-try at the present time. There is probably no single couse of our econonic lills; shhough nongo based on an occumulation of factors, leading to a declining parformance of muni-factoring lodustry in Britain. For some years the country hos hod e dateriorating balaccoof-poyments position; this in gonerol havo found it more difficult to operate in an increasingly competitive world; this has led to an inevitable detorioration of

trol use hans a begut that home demand for mouty of out that home demand for mouty of out in an attempt to axpood oversens traile; ooe possible effect of those controls has begut that home demand for mouty of out anufficently strongly to give the occurring and to ensuce the long-torm needs. It is amnetimes and to ensuce the long-torm needs another mouty of out in the strong by to give the long to ensure the long-torm needs. It is amnetimes of the englied howed and for mouty of out in the strong by to give the long to manufacturing indestry in comparison with other industry industry in comparison with ave not have in a position to astabilian productive lovels which other muufacturing in distry invoceding in the way, we can belate a whole series of the manufacturing mongst the world's competitors in manufacturing. Our serious national position is the

The state of the state of the

In the continuing define of the nation's result of "cumulative" constition; no single economic prubleus, endication—all nor be latedly perhaps—finds itself in the orena of discussion. In recent promouncements the prime Minister has made reference not only to believe for higher education, there is an immediate danger that institutions of higher education will be observed education will be observed education. is an immediate danger than institutions of higher education will be obsessed with trying to tackle short-term problems. It is much onere important that educational institutions think most deeply shout the longer-term

issues. This is so for at least two important ren-sons: first, education of people is ineritably u process requiring a long time scale; second much of the research and many al the new

much of the research and many ni the new eoncepts emerging can only have a long-term intonet on ladustry. In the short term, and over the next two to three years, it is perhaps most important that teaching in higher education sustains the strengths of our lodustrial economy. All too often the debate on the industrial situation has focused on the weaknesses of our iodus-trial economy, and on the remeilful actions which ore needed to eliminate these weak-nesses. nesses. There is a serious danger in this that the

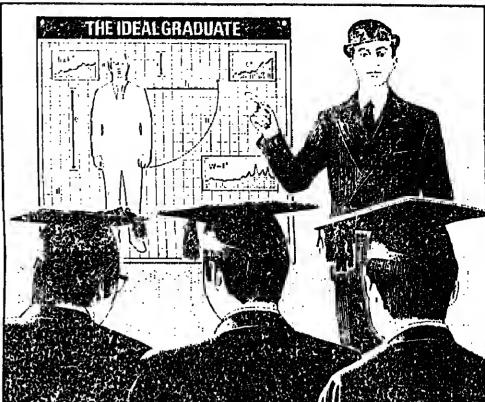
There is e serious danger in this that the strengths of our industrial economy are neglected, and that institutions of higher edu-cation may fail to support these in the loncer term. Where, in the short term, deficiencies in the skills needed by production industry can be identified, there is a need for nulck "retraining" of approximate period, and it would be very sensible for public funds to be used extensively, in the present crisis period, to encourage retraining programmes; govern-ment support of the Training Services Acency is one sign of olfinial backing of this ap-proach. In attempting to resent of the obvious

proach. In attempting to rreak some of the obvious delicientries in trained skills, institutions of higher education should be wary though of over-resonnding to, inflated statements of "needs" at the present time; over long periods of time, there have been "stop-go" attitudes by industry in the recruitment of skilled staff, and it would be dangerous for the educational system to over-respond to this for the education of the statement of the the education of the statement of the should be an attent of the statement of the the education of the statement of the should be an attent of the statement of the should be an attent of the statement of the the statement of the statement of the statement of the should be an attent of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the should be attent of the statement of the statement of the statement of the should be attent of the statement of the sta floculating demand to an extent of plauning inno-term programmes to prove demands which industries may not be which sustain

In the inng-term. If we look beyond the short term, and on If we look beyond the short term, and on in the medlum term of three to five years ahead, in this period higher education has more time to rollect its thoughts about its role in productive industry. Witkin this time-scale we have time to consider—in present denth—the present strengths of our indus-ted concerns and to take notifies the to the

operate in an increasingly competitive world; this has led to an inevitable detorloration of our balance-of-payments. Since the Second World Wor we have seen mony different economic out monetary con-trol mechanisms introduced to entb home the second world we we have seen and the medication of the second world we have seen to mechanisms introduced to entb home the methanisms introduced to entb home the second world we have seen and the metice that these are relevent to an addite metice that these are relevent to an

tion and training philosophies and atandards, and to ensuce that these ora relevant to our long-torm naods. It is annetimes orgued that empinyars of professionals about bo the moint force for reform of professional education and teala-ing; if this is so, then Goverhmant—which is now one of the lurgest empinyers of hold eoginears and aclantists—is in a key phaliton to meeurage reform in engropriote erens. Education will have a long-ternt impact on industry, and in particular on manufocturing industry, if "education" con understand the colo of the manufacturing function and the need for this is a mudarn industcolled society. We cannot toach the relevance of the manufacturing function solely in terms of the need to meet the demands of a con-symer agelaty.



ladeed, such an annroach would ochieve no success miningsr young people, so many of whom are very critical of the ennsumer suciety and the profit motive within it. In must be shown that manufacturing logically eariches the livos of people both to Britain

and abroad. To the long term there is particular need for the country in orderstand more fully the role of scientists in industrial technology. Much of the advouce of industrial technology in Britain in the nioeteenth contury was due to the work of scientists bringing new con-cepts into manufacture and service functions. There is a donger in the present elimate, when short-term problems are seen to be ones of engineering runber than science, that

ine role of the scientists muy be under-rated in Industrial technology generolly.

in the long term we shall see more teaching activities in higher edocation conducted with industries rather than outside

canduced with industries rather than outside them. This does not mean only an extension of sandwich courses, but the involvement of teochors more syldely within industry itself bringing in industries wider knuwledge of new developments and ideas. The linkows that universitics ond polytech-nies have with iodustry ut present are weak; one indication of this is the very smoll (and probably deciling) amount of research which is commissioned by industry within universities and polytechnics. In addition to reaching and research, insti-tutions of higher education should take on a mare dissominating role in society; they tend at present to retain knowledge within themselves and to publish this in rather parrow and esoteric chaunels which are not easily intelligible to potential users of ideas. In the long term we shall need to organize

ensily intelligible to potential users of ideas. In the long term we shall need to organize ourselves nationally to be more effective in teaching and research in engineering and srience; it is not at all clear that 75 or ao independent institutions of higher education, earh competing for srientists and engineers, and each adapting different policies, really helps the rountry to attain a high standard in industrial technology; there is a need for encoding programmee as well as recoverch.

receatch. In higher education there is a need, long term, for reform ut postgraduote eiucotion in science nud engineering, eithor through institutions of higher education looking nr this collactively (nermos through UGC) or with the help of the research councils.

with the help of the research councils. The Science Research Couucil, in its policy, has always, been toru hetweon science and engineering, the one scen as the advancement of pure knowledge ind the attree as the advancement of pure knowledge ind the attree as the appli-terior of science. This approach the funds menially unsund; in fails to see the impor-tance of bath pure science and applied know-ledge in the edvancement of indusiciel tech-relege in

If the Scienco Research Cmincil is to make a contribution to the industrial tochnolory of this country it must have a much more offec-tivo policy in postgraduato oducation than it has ac present in both arlence and engine the needs in a more realistic way than is pres-outly the coso-Any philosophy that is developed of monncering.

To encourage roscacch of ludustrini relevnnea, there is much to be smd. fm the SRC, Investing only in those institutions which, hnve a cecord of resourch in ludustcial tech-noingy sponeored by ludustry.

industrialized countries of the world, Britain pruduces one of the largest proportions of science and engineering graduates of any country. It is very questionable whether our present

It is very questionable whether our present problems have much to do with the anthers of graduates the universities and polytechnics are producing. Rother it is about the inti-tudes of staffs of universities and polyterh-nics, and thus of their studeots, towards industrial technologies, towards production, munufacture, service industries and so on; this is the fundamental problem facing higher economia its law to have term education in the long-term

Postgraduate education

What are the moln points emerging from this discussion? I would summarize them as follows :

as follows: In the present "crisis" shuation, there is a langer of higher education over-reacting to the problema of industry, to a pulnt where abort-term needs may dictate long-term poll-clea. In higher education, only limited responses ure possible in the abort-term, and, airhough rhese are important and indeed higher education should react quickly, the likely short-term impact of higher education on the industrial scene is limited. However, this does not moan that some stops caunant be taken immediately which rould bave long-term effects both, for iodostry and higher education.

There is a used to sustain and develop nut present strengths in industrial technology and for the country not to be obsessed simply For the country not to be obsessed simply with overcoming weaknesses. Many of our preaent policies in higher education nro essentially remedial in character and snme of these could, anyway, be wasted; for some of our problems dicre may be no remedies. It would be unfortunate, in this climate, if we were to neglect the strengths of our in-dustrial technology and of those areas of higher education which sustain them.

B Present attitudes in higher education do not help higher eduration institutions to play

nor help higher eduration institutions to play a really effective role in industrial technology lo Britain. Many educationalists have cynical views of industry out particularly of manu-fucturing industry. Moreover, their teaching doea nm encourne flexible ettitudes to em-nioyment in the later careers of graduares. Higher aducation in the futura will need to work more elosely with industry in taaching, cosearch and dissemination. It will need to do this not only through the present are-tures within higher education, but through the widor use of epicialized unite for these purposos. burbosos.

Thera is a need for a more effective nat-lonol organization in higher oducetion of bath selonco and engineering. In porticular, thers is a nead for a major roform of postgradueto education in science and engineering, and for,

power needs oust appreciate the growth af service functions: and the role of scientista and engineers in thum, as well as in mnnu-facturing industry.

 facturing industry.
 There is a need to understand the viral roles of science out acientists in industrial tochnology, as well as engineering and onginaers. The Sciouce Research Council could slvo groeter force to the industrial significance of its work by limiting a part of its funds to institutions which can show a record of industrially-sponsoral rescorts in koth engineering and science. In this wey SRC nolngy sponeored by ladusuy. Abovo ell, there is a need for the develop-mont in higher aducation of a more cogent philosophy of the role of acientists and ongli-neers in industrial technology than was noparently given to the country in the Rob-bins Report. That report based its ideas on the simple coocept that the country needed a lorger number of scientists and ongineers, and that it was the universities' not ongineers, them initial education ond training. Since then, the numbers of gradunies in acience and engineering hova; been swollen further by the polytechnics. Acrosa the

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| BOOKS [Aboard the culture bandwagon

Approoches lo Popular Culture edited by C. W. E. Bigsby Edward Arnold, £5.95 and £2.95 ISBN 0 7131 5834 4 and 5835 2

Approaches to Poyntar Culture follows hard on the heels of so even more hetersgeneous cullection af articles, also edited by C. W. E. Bigsby largely concerned with American popular culture and its effect on Europe (Superculture, Elek : 1975). The assumption----so common nowadays as to have berome almost an axiom---than there is some such universal as "popular cohure" underlying, or transcending, particular forms is itself dubious; it seems far from selfevident that "the multiplicity of forms of pspalar coluce should lead the analyst to a single underlying configuration of meanings" (Kress, p97). Even more dubious is the assumption that this metaphysical cutity, will spectrally manifest itself at the hypothetical meeting-point of an apparently random selection of approaches : nolisocislogical, structural, tical, finguistic, Marxlat, cincutatic, musical, mythical, televisual, and su on. In fuct, such a collection is mure likely to be a heap than n whole : and this one duly fulfils that likelihood. Not that it is entirely without interest; just that it is entirely without direction.

In one or two articles the vital distinction between "culture" as art and entertainment, and "cul-is fleetingly remarked (though usuol-ly later overlooked). In the collec-tion as a whole it is totally isonard. tion as s whole it is totally ignored. Now, something coherent might have resulted from a gathering of essays on onpular culture in the first sense, whether "popular" was defined by quolity, clsss or unumber-though it would then have been necessary to keep firmly and clearly in minul the distinction between "menting" and " significonce "-a distinction involving, respectively, investigation of a work's identity as un urtefact, ond its effect es a sucial fsetnr ; the latter being evidently considersbly the more relevant for works defined os "popular" largely on grounds of moss-sppeal fthough mass appeal need not always bo ossociated twith second-rute quality).

e a la salage de

Equally coherent might have been a single long study of the usefniness or uselessness of the currently fashor uselessness of the currently fash-ionable , transcendantal concept, "popular , culture", or prefarably, a single long study of some specific kind of popular culture (novel, film, song, or whatever) whether critically, in terms of meaning, or metacritic olly, in terms of significance, or both—in either cose contrasting in with eillist culture of the same kind. Less coherent, but still useful meabe Less coherent, but still useful, might have been a collection of separate studies of different verietles within a certain species: say, the risual assault "desiderated. Moreover, this



Culture clush ? The Subration Army plays in people que uing for the Windsor Pop Festical in August 1971,

function was to fustle his contribu-tors on to the bondryegon ond ring the belt. Bigsby's opening chopter, which acts est a sort of general intro-unction (through it was not origin-uly written as such) is puradigm-utic : it has plenty of intelligent inless but on cuherent thesis, a num-ber of flaws of style and eronmar ber of flaws of style and grommar (the "lutter" of three items, "the (the "lutter" of three items, "the precise importance . . . ore", and the like), it studiows structuralism uncrhically, is scornful alout thuse who define partular culture in terms of an apposite (without considering what distinguishing moaning would he left to o phraso without on appo-site), and enaclados with tho triumphone assertion that:

there is ot last a clear sense hnih of the importance of the field and the need for an integrated ssault on material which necessarily transcends both nailonal houn-daries and the divisions between disciplines.

Necessarily? Could there not be Necessarily? Could there not be national popular culture? And while "popular culture? as a meteophysicol univorsal, if it exists, must necessarily—in deed trustic-ally—cross the divisions between discipliaes, it seems by no means impossible to have self-contsined studies of forms of popular litera-ture or art or music. Indead his own contributors provido examples —in a book which precisely does not provide the "integrated " Integrated What we actually have is a ran- or ill, to non-popular culture !

Culturni Science". Zev Burlau then contributes "A Socialogical Approach" so carefully qualified that it is difficult to see what it is looding to, and couched in jsruon filtat'is "aggrovated wather thou-allerianch by a halo of saying everything that or three times ("hetter sold" ... "in other twurls"...) instead of onco riearly. This ton cuutulus grupumateal This ton cuntulus grummatical errors, and apparent fluws of orga-ment. Thus it is asserted un paga ment. 48 thut :

the theoretical hypothesis that nyths or fulk toles nto inagina-nyths or fulk toles nto inagina-live curstructions, or unlfying inages of nun's experience of thu world ond himself, cannat and does not explain the dynamic putential and universal oppeal of this products of inagination.

Well, what does? The true explu-nation is given on the same usgo:

In other words, myths constitute bsslc models in which mon struc-tures (ideniifies, classifies and interconnects), ss well os evsin-ates his experience of the world.

ates his experience of the world. A distinction, it seems, without a difference. This essay mokes many other duhlous and odd statements— none odder perhaps thon that Kafks's works have "only minor artistle value" because their vision of man is non-typicol. He does, how-aver, coma through to one of the most useful ideas in the book (mue noted siso by G. C. Kress): thut a distinction may be madu between folk culture, art or enteriolment provided by peuple for themselves, as but producers and rousamers,

This essay is fullowed by Ray-moul Williams, weighty and ponderous, an "Communications as Culturni Science". Zey Barlia then contributes "A Socialogical Approach & Socialogi is amost insepuration from the usen and gractica of instrumental ration-ality "1) Ills idea of an increasing " culturol unblimensionality", too, is a currh while one-colough it is not the only explanation for his tradulity to arrive at any viable definition of "popular rulture",

Peter Burke advances the inte esting and not meanwincing thesis that popular art and ballads ar-kener than the usual historical documents for understanding the documents for understanding the life of the folk, us such documents are the product of mediators for the lifterate. Kress is clear and critical up structuralism but scens to occup one of its husic assumptions in censily: under the council of intu ensily: numely, that context is all, eventivity nuthlug, in the pra-duction of cultural sentes.

Robert findge (* Linguistics and Popular Culture *) gues further. He begins by uccepting the structural-ist assumption that popular culture, even of non-linguistic form, will have the sout of generative generality that groundar has:

This has important medhodulugieal implications for the statem of popular culture. . . Any sam-ple will do, as the storting paint of enquiry, ond intensive unaly-tic serutiny becomes legitimate and well-motivated.

Ho ends by fiercely attacking the heilef that "a literary critic, rely-ing an more intultion and a finely-tuned sensibility, could cunceivably see everything that my enalysis has brought nut". In henvee, occur

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The effect of using links of the main contents are arranged that sinderts might then have a charter of the sentence of the sen

cach other. This science are make the distinction between: how and propter hoc, sears and causation. Interestingly Mathematical Carnivul real cause for the distance by Martin Gardner ... is her " trembling" ath Allen and Unwin, £6.50 this follows the catadyan-it ISBN 004 793025 X us though somehaw the fait the glasses raused het to use ... This lady is pre-Newtonic Martin Gardner had freet writing True, fin-ly-timed literary the first storted tesching, ond a chance would be unlikely to spot all the encautter in a library was enough --ur any of it. Nor would be after to scientific American. Six to intuition or sensibility. To hooks of puzzles and prublems havo might well see that "The previously appeared—this volume is statted ... " gives a perfectly at the security and freshness of approach the rattling glasses (and for is the gives one the impression that trendifing and juking). The mar the gives one the impression that trendifing and juking. The fills the exclusion of the old and the caused exploration is ences. Inculs: Ito language, une thing is the fill the items unly by and is ences. Inculs: Ito language, une thing is the filling and publics will be a face with an encession hading all the items unly by and is ences. The same surt of criticians will be a face science of the old and the manyone but a science for an the mathematics that gives that is the items of the states in the discustion of the order so hading all the items unly by and inclusion of the order so the finally indicated that the ratios the having all the items will be a face in the discustion of high-all going on a nure. The same surt of criticians will be having to the nume. The same surt of criticians will be having to the nume. The same surt of criticians of modes of sections of a hypercube termining pieces. Here he be

The same suit of criticians off ton's cubes for moking three-space he inaught to hear in one of the models of sections of a hypercube commining pieces. Even the bission of the staff like the card tend to be marrel by sould' tricks that depend on a knowledge famil innovempinical) least hat of Pascul's triongle, or the penny meaning to significance in geody puzzles that illustrate theorems in the more limited the subject-se incidence geometry. Here are same more calculating pieces, and pipular willing in the tricks and algorithms, and the thirties---the more voluable is story of the strange connexion every.

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techoique with a " cuntinual awareness of Rimbaud's known experience as a person in relation to society" makes very convincing routing, for he adds the riter that he has fouked for privete meanings rather than relation to society" he adds the riter that he has fouked for privete meanings rather than relation to the text rather than relation to the add the riter that he has fouked the relation to society the society the text rather than relation to the text rather than text rather text rather than text rather tex dangors and intricectes of an ever expanding Minotsuriso lahyrinth Let it he said immediately that Dr Osmond possesses the courage of Thesens, and the intelligence of Ariodne, He has had to vend his way avoiding the lures presented by diffaring schools uf criticism: the metaphysical, the source hun-lers!" the guosl-mystical socialism

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"It is more than a "incretheoretical essay, and it is the extras embodied in it as much as its academic content which make in quite special. Among these are ... its anthou's sillingness to tackle all extraordinatily tvide range of issues and, mirabile dictn, a locid prose style and culierent structure.* Juhn Naughtin, Listeuer

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The construction of Plat Hein's supersilipse and its genaralizations is described, and there is a chapter ton the art of Mourits Escher with its surrealist use of symmetrics and falso perspective and the reptiles that crawl up out of the plans to take a dislaining look of three-space the bease one ferend on the which are space to the bease one ferend on the which are for alternatives to the the bease one ferend on the matternatives to the the bease one ferend on the which are space to the bease one ferend on the mattern the bease one ferend on the matternatives to the preferences. It makes uneasily bofore returning. And, os siways, Lare lisvo a collection of juuroly recreational games ond puzzles, and that simple but serious game for doodlers "sprouts". So many of these idans ore gens

So many of these idens ore gens for the classroom—open-ended investigations, simple but non-itriviol problems that can ba tackled with elementary mathematics— fuggesting variations; extensions, uaw approaches to old idess ond giving challenge, enjoyment ond folisfsction at many levals. We are sil hore, ganlus, crank,

mental perceptions and responses, the pulities of environmentalism, and environmental lsw. Respite its references in over

Pion, £7.50 1511N 0 85086 056 3 1,500 reparts, books and articles (which makes I) read in places like an monotoil biblingraphy), there Environmentalism as a social moveare some strange omissions, untably any discussion of Mary Dauglas's perceptive and thought-providing Parity and Dauger and Enerron-ments at Risk. ment embraces rancern with a wideranging set of issues, from the destruction of amenity, pollution, and the exhnustion of non-renewable resnurces, to unxiety about the socin-political cursequences of the continuation of unbridled industrialcontinuation of unbridled industrial- inf daugers are singled nut and used izmion. This book begins with an as levers at infinence behaviour. account of two broad ideological

Acceptable ecocentricity

account in the invariant interiogical Applying net perspectives in the environmental-perspectives in the environmental-the encentric twhich is acceptable) und the tachnoceutric (which is not). Ecocentrism preoches the familiar environmentalist incssage—corecan with values/enils, low-impact ..., nulogies, and a search fur sishtity through respect for eculogical principles and notursi luws. There is a strong element of Utoplan uonchism which fooks to small-seale self-sufficient communities (tribes) ns o protection ogoinst the delumonizing effocts of ludustrisil-tribal social movement is clear that the environmentalist invention to a small-scale egnli-seale self-sufficient communities (tribes) ns o protection ogoinst the philosopthy in Kropotkin, Geddes ond Mumford). By contrast, techond Mumford). By contrast, tech-ist values. Thrents of on impending nocentrism is preoccupien with mesns, admires the comforting numering but mount and nower of technology and is outand Mumford). By contrast, technower of technology and is optimistic alunut the future. It pinces its fnith above all on rationality, efficiency, and the role of profes-

perspectives on the environment--

onnlism und expertise, Environmentalism, the author argues, is emerging as a sacial movement that has given "n powerful new impetus to traditional liberal sociolist rhetorie". The contemporory trend of industrialism cannot continue. The centrol issue facing society is the "Irsgedy of the haves ore forced, as the price of survival, to protect themselves ogninst the have-nots. The final chapter sets out some alternatives. A number of possible institutional reforme are considered; a new globol, order through the extension of International outhority; can-tralized authoritorianism to contain the disruption generated by colastrophe, the decentralized outhoritarlon communo (vide China), ond the (preforred) ecocontric onorchist solution of the self-relisht communs ----a klud of post-industrial tribsilsm. In botween ore chopters devoted to exploring each of the main elements in the environmontolist debate-Leo Rogers growth and its illnits, the projection of amonity, the measurement of environmentsi quolity, environ-

As she observes, what is fascinat-ing is the way in which environmen-inf dangers are singled nut and used Applying her perspective to non-tribal societies, it is clear that the

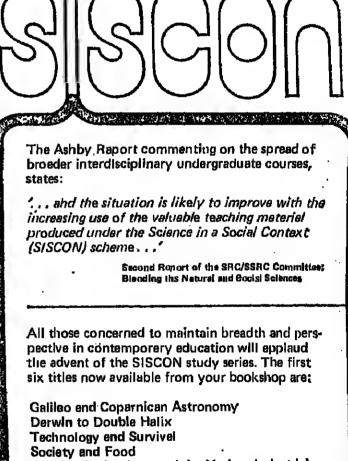
is by no meons united to its sur-port for traditional liberal nr social-ist values. Threats of an in social-

The lessons of binlogy ore ambigu-ous. If Darwin eachssized cannet-tion, Kroootkin drew attention to the survival ratus of neutual The survival rates or neutral data Environmentalism altracts the tough-minded, who would brook an nunsense and forcibly findle access to the commons. It attenets not the tender-minded who the reason the larger altruism ood the reason the foremulty. And each derives their bathematic for Nature If nr community, And cach nerves their instruminn from Nuture. If modern mon rojects God os the authoritative source of moral isw, it is no gond turping to Nature as a subscitutes, man spust, workersus, his

preferences. It may a uneasily between what seem to be deteched acadomic observations and ovalua-tion and prescription. Its weakness is that it attemnts too much. It fails in its evaneolical task (compared with the Bluenrint or Limits to Grawth). And of necessity it can do fittle oners than give a superfielal account of the companent elements in the debate. But as o its adbook— a guide to the complexities of tha-issues, and a warning ogainst facile simplistic conclusions, it is an essat-tial reference for students, plonners, and pollicians espected to look beynnil the next oxaminotion or the next election.

The pessimilats could be right : the millenial crisis could be round the curner. Since both sides of the ilebate are permeated by ideology, it may be prudent to be cautious.

Stephen Cotgrove

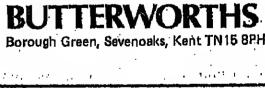


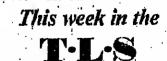
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Theory and practice

BOOKS

Considerations on Western Marxism by Perry Anderson New Left Bonks, £4.00 SBN 902 308 67 X

This is a very bad book on an important subject. Whereas Mr Anderson's tien earlier books, ossoges from Antiquity to Pendolisin and Lineages of the Absolutist Stone, display, for all their Marxist orthodoxy, a superb mastery of massive material, brillimit powers of composition, and a lucid style, this one just displays arrogance. It is dogmatic, shallone, self-confirming, pannans, and enurmonsly condescending - both to wards the reader, who is told only in an offerword that the author himself regards his whole text as hasically flawed, and towards the ostensible object of Mr Anderson's concern, the " international working

theory and practice " expresses a against the aucien regimes of Eastself-evident troth, and priceeds to present the following pleture. The "classicul tradition" of Marxism extends, in two phases-a Western and un Eastern-from Murx and and on Eastern—from Marx and Engels to Leuin and Tratsky. The founders of Marxisan, who constitute the (first) Western phase, had remarkuldy little contact with warking class movements and organiza-ilons in uither the Englond in which they lived or the Germany in which they were most especially interasted and largely confined themacives to carresponding with fellow-innurgeois millionts.

millinnis. The remainers of original Marxis theory in a predominantly agratian to a predominantly agratian socioty. Morenver, Lenin knew hun is the time were largely nrisun and the dime were largely nrisun and person, rother than prolotarion in the analyse the fact in the dime were largely nrisun and the dime were largely nrisun and the dime were largely nrisun and person, rother than prolotarion in the analyse the fact in the dimer that Lenia somehaw managed, fur a that Lenia somehaw managed, fur a that Lenia somehaw managed, fur a the numer the associate of industrist working-class parties accurred site Marx's theory with the actually revised Marxian able to skoteh a theory of prule tarian revolutionary prolotariat? And whin ore wo to make at ? And the revolution in the nonence of it revolutionary pralotariat? And when one we to make of the fori thist, when they did arise (which in any case they did wall hofore Marx's deoth), the industrial working-closs parties were not con-epicnonsily Marxist let alone revolu-tionery ? These questions, which

day and

Engels (left) and Trotsky : Western and Eastern Maria

was really their mite, though this mity was "uneren and mediate".

To return to Mr Anderson's narro-Anderson takes it for granted that, at some-anspecified-level, the Marxist slogun of "the mainy of the Marxist slogun of "the mainy of autocratic regimes, rather than mas-

Mir Anderson sidesteps these issues and moves att, instead, to his main tople, "Western Marxisti" in the period since the Bulshevik Revolution and the abartive revolu-tions which the Russian uno hsu hispitred in Central and Edstern Europe, Here ho pursues a truly remarkable strategy in terms of the datellectual careers of a anny. eeem central to any serious trser. "Westorn Merxisni" in terms of ment of the relationship between Murxist theory and proletarian bar of neademic or seni-academic ment of the relationsmit between the intellectual careers of a num-Murxist theory and proletarian bar of neademic or semi-academic practice, are not even raised. In-stead, wa ers told that the evident Adotno, Marcusu, Sartre and gap between theory and practice Althusser—and then reveals that

Political violence in reality

Three Esseys on Politirol Vialcare by Ted Handerich

the Left". To this ood Ted Honder rich opens hie inquiry by consider-ing the very different etiludes out of the ordinary run of uur co-sonai towards ths facts of political violence and the focts of social inequality which it is tho aim of the violenc Left to destroy. Honderich bölleves, as f du, that nuch political theorizing suffers from o fundameente failure to relow itself to the crude, hard facts of life; and hu insists on dragging to of life; and hu insists on dragging to foliar men's truncated exist-ing two fail lives far every single if eof the poor end black in rich rightly losists, " is not all that mgi tres, but it metters very much life of the poor in the pourest cooo-rightly losists, " is not all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of the mora all that mgi tres, but it metters very much life of dividual human experience of tens

of millions of itersous, who was enve on behalf af the supravould like to live as long and us weath or power. wall as the readers of the 7/1/5. A brief review according

Basil Blackwell, £4.50 ISBN 0 631 17040 S The declarsd object of these essays Is." to, inquice with an open mind inta the morality of political vin-lence, or really, political vin-the Left". To this ood Ted Honde-rich opens his inquiry by consider-ing the word difference estider.

in Western Europe sin t World War Marxism beas mic and philosophical. Will exception of Gromic and theorist is cited who is serious, immediate or pol-ralrement with the works or with regulationary me With one exception, new by in Marxist economic Ignored, or noticed only i nutes.

The only interosting him his characterization of Marxisun is that Lukars h Marcuse, Sartre and Aldefor years been standard for readers of the New Left Re, which Mr Anglerson is an

try." Of the control, and not to see in this patter if tent immatority of the pat, international Marxisland she which sees in the world his groat reserve army disk withing over bolleting is a what the working classes " ahout

Helail

BOORS Martial weakness

The Palitics of the Italian Army by John Whitiam Crooul Helm, £7.50 ISBN 0 208 0197 3

The role of the military in polities has been covered as an aspect of the development of onest modern European states, although a major exception to date has been a study on Italy. This may out seem a surprising antission, since the tralian army has no abvious claint to fame even consulering its role in the Risorgimento, hu as John Whittam shows in his carefully documented sindy the reasons are more varied and complex then are suggested by clickés about the Italian tack of fighting spirit.

He facuses on Italy's military perbermance in successive wars during the period from the Risorgineero to the First World War, and sets it in the prist world war, and say it in the context of internal political developments in Italy as well as international events. The result is a solid contribution to the early history of the Italian state.

His book discusses many netects. This lack of otilitarism mean search, it will for of the halian army's role, from its state of organization following repeated attempts to reform and modernize it and hs quality of ons challenge to the governmental Geo

leadership to its importance as a featership. There were feat signs factor in Italian foreign and colonial of support for authoritarian solutions, for army leaders maintainest was repeatedly inhibited be organizational deficiencies and the lack some of them acquired high civilian was too often wasted for reasons of slite -prestige rentures abroad--with fatal time. An too varies the broad with tank prestige rentures abroad with tank consequences in the Libyan War of 1911-12, after which halp had little 2011-12, after which had little 20 Worht War,

The fundamental reason for traly's integration of the now trailant state to topic crucial to the there in the how-ky-blow account of her militaris in the absence of militarism. It was crident in the howly is not really spelled of militarism. It was crident in the difficulties of the few references in the fifter of the army resulting from regional and the army resulting from regional in t

sustain a prolonged military effort, suggests that they were reconcident although Italy's military strength as part of the same established as part of the same established effice as the political leaders of the

Workt War. One fundamental reason for trady's integration of the new traffar

nythology. This lack of milliorism mean search, it will for reasons of pre-but despite political instability in sourch, it will for reasons of pre-

Geoffrey Pridham

From local to national identity

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Nstlanalism : The Nature and Evalution of oo Idso . edited by Bugene Kamenke Edward Arnold, £3.95 ISBN 0 7131 5874 3

Jahsrent in the concept of a aatlon-Jahsrent in the concept of a fation-silist consciousness is the idea that individuals who fulstorically have likelified with lorel sob-cultures come to rerogaize that they are pri-marily membars of the stori, rather than of their tribal, chair, religious, linguistic or resinnal groups. The definition of " national"

to e diffusionist madel of nailonolisi development. Integrating artina in the farm of propaganda and organi-zatian by siltes, and that taken by the hurcascracies of established states, combines with the derelap-ment of a nurket economy ta in-crease interregional contacts and the diffusion of universalist values including a netional consolutions, within certain geographical limits, However, variations in the charac-tristirs and sime of the local sorializing agencies, and the spati-ally uneven development of moderally uneven development of moder-nization suggests considerable variation in ris types of conditions which farillate or obstruct national

he clites". None of the contribut especially the tensions arising in The chiefs". Note of the contribution especially the tensions arising in tors really fares op to the problems involved. Most seem to subscributies aware of geographical lucquali-to a diffusionist model of nationalist development. Integrating action in the faroi of projuganda and organi-gation by siltes, and that taken by the hurcaseracies of estublished states, enublics with the distribution of wealth. The hurcaseracies of estublished and the crocial inportance of polin-ical autonomy as a steam of com-tolical development. trolling development.

Even in the addest extendished states feellogs of inforiority smoolg groups with a surviving static identity might lead to golitical dis-integration. His is a timely warn-ing that the political rore which ignores the sparilic needs of peri-pheral groups, particularly where its come to rerognize that they ere pri-marily msmbars of the nstion, rather than of their tribal, ethaic, religious, linguistic or regimal groups. The definition of "national" characteristics, as bath Komenks and Smith emphasize, is hikielly made by insubers of socially unrepresen-tative "elite" groups, often as a 'resolt of their perception of the dis-unity end political wsokness of one social group in comperison with some already more highly organized entity. Kamonka insists on tha need to grasp the phanomenon of nstlanal-ism "In all the camplexity of its historical snd social development." According to Smith, the main analy-tical problem is that of "the sociel penetration of nationellsm beyand

Is it a movement or a party?

balauco ia multiple-nothar books, and this one is no exception. Sama of the authors make all attempt to study "the relatione of movements and political partles, ond the inter-action af movements and political systems", le, to do what we are told hy the editors is the main objactive and distinctive approach of the book. Kallusky, Pridham, 'Hine, Paterson aud Smith ell noka and offort to work within the bounde laid down by tha editors, but, as ilino wisely admits in his essay on rade odan movements in France and Italy, the distinction bstwcen "movements" and "partles", both politically and sociolly, is often for the Ilieraturo o movomenta and the lieraturo o movomenta and file. Ilieraturo o movomenta and file altions had read the altions had read the altions in a protes", both politically and sociolly, is often the Ilieraturo o movomenta and file. Ilieraturo o movomenta and file, file sutiors had read the altions in political and socially movements? Agala, webit is social file and socially and socially is often the Ilieraturo o movomenta and file, file autiors had read the altions in political and socially movements? Agala, web law the well and socially movements? Agala, webit he other the movements? Agala, webite nue movements? Agala, webite if the oot-the Ilieraturo o movomenta and files, have, been better if the oot-smith's ssay on political and socially movements? Agala, webite other movements? Agala, webite and socially and science in the social science in the science in the social science in the science in th

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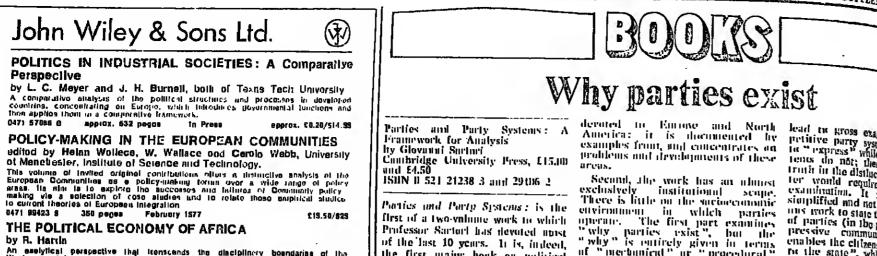
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	from the start of the	in any ways with Iticity	the state of states and the	and and the second second second second second	on the right and on the left of the	of the tuilependent Labour Party and the independent Labour Party and the indefile period of the Miners' Federation. To some extent, the historian of the working-class movement can therefore unity the	
	America: oltogether there are seven poges an Africa in o book af uver 350; countries such as Costa Rica, Venezuela, or Sri Lauka, which had	logical work; it is more idenducical than. Doverger's way, Professor Sartori dues non like single-party systems; he dues not like Com- munity parties—either of the "Stallnist" voriety or of the more flexible Italian type; he dues not like African parties, which he feels are youk and have led to un	the older "classics", epc. parties, such as those of a ski ar Michels. But there a country one might back	servatives with their hankering after notloiral churches, censurship ond compulsory morol education. The difficulty about octuol conservatives	while well. They are litterni, prag- mutic and scepticol. They argue in favour of constitutional limitations on the executive and more protec-	sulfifiel when the project is com- plete; but what in lacks of this stage, in routharison with the generational volumes of the Dic-	New Politics Titles from
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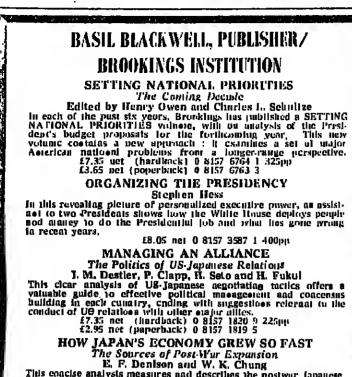
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deduce policies frum theories.-thuse of Locke, J. S. Mill, Spencer and T. H. Green. But the fuilare of those attempts should not surpriso us as they appealed not to surpriso us as they appealed not to surpriso isu, hology and metaphysics re-spectively. The general meaning pro-ticu is a stream of the surprise spectively. The general meaning pro-not be said, only thus." If this means that talking about an action is not doing it, it is trivial. If it means that there are same prartices that theory cumot usels, it is false. Monulog's view of identions does

Monuling's view of idealingy dors not ullaw him to see the extent to which ideological differences in-volve contradictory explorations of Ilberity which liberals typleally voive contradictory explanations of powers, rule of law, compolituut.
Minuing has e keen eye fur this multipileity of liboral thouses. But the workings of sncicity, each rulint ing truth. A dispute, for example, between n liboral mult n snciulist nany multipileity of liboral thouses. But the workings of obstracts or obstracts their renlization—state intervention, the prosent of obstracts of the masses, or the prover of the propertied. Manning logies hove neithor truth-volues for practical relevance; an ideology is not meout to yield knowledgo but to guide practice; but this, he thinks, it cannot do either, becouse it is thaory. The sagregation of theory from practice is complete. When the liberal politician ects contrery to liberel ideology
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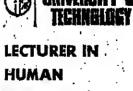
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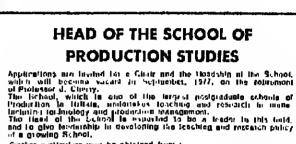
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Additional information about the School realy be distingd from Professor J. K. Crawlor, penn of the Faculty of Aris, in the University.

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Applications are invited from precititionars and research workers in development who would like to epand a short period et the I.D.S. working on aome aspects of the insti-inte's priority ereas of research (poverly, employment, moome distribution and " rich "---" poor" country rela-

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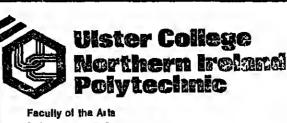
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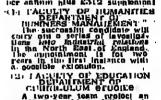
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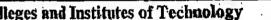
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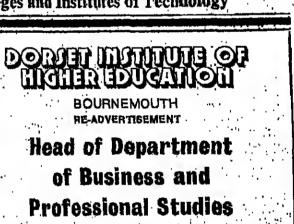
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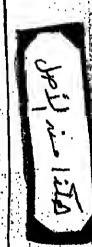
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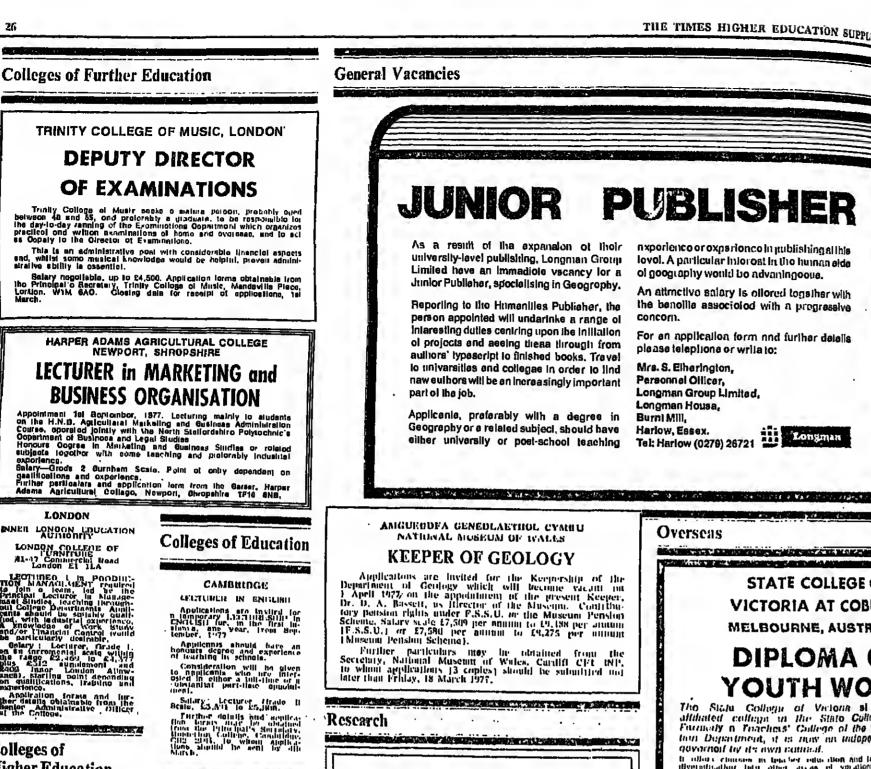


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which I have seen are practical and itased on experience. My non ex-perience certainly indicates that the proposols, if carried out as an eco-nomy measure, would lead in a disastrous loss of efficiency in uni-versity libraries; but if implemented which the presented the seeds of

to give an example of how such o similar connexion with our BSc

TEC and life sciences

While the TEC courses must nomy neusure, would lead in u disistreus loss af efficiency in uni-versity libraries; but if implemented with due onemion to the needs of readers, they would prove to be just about the most expensive possible way of coping with the information explosion. Yours folthfully, A. K. D. Campheli, Tutor librorian, Institute of Education, Institute of Education, Institute of Education,

cation, and one et its ospects is lite uncritical ecceptence of increesing numbers and gradee of GCE passes as solo apprupriate entry quelifica-illans for vocationel courses. The TEC mitilmum roquirement is a minimum, and ean bo varied up-words. But higher entry require-ments for specific programmes shauh be justified on realistic edu-

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Yours laithfully, P. N. O'DONOGHUE.

Chairman, TEC life sciences programmie committee, Rnyal Posigreduste Medical Schoni,

Reading engineers

Sir,-We welcome Reeding Univer-Sir,—In The THES (Jeouery 2) you Sir,—WC withoms Recalling Univer-published a pholograph of our sity's anglacens to the second half cheined aneyclopedies, cryptically ceptiooed "Signs of the times?" Might I explain its purpose? As this is a very small ert school, where the second for the context of the second secon education has been carried out for many yoars by polytechnic engineer-log departments. Indeed, many polytechnics run degree eod Higher Netional Diplome courses to the seme doportmonts, giving e real meening to comprehensive bigher oducation.

It is, however, pleasing to see Reading making a conscientious effort in recognize the Ordinery Not-longl Certificota/Ordinery Nationel Diplotsa routo for ongiseers, es is-deed do many other universities. Yours faithfully, MICHAEL RUGMAN, Doportmant of civil engineering, Portsmouth Polytechaic.

more lellers page 14

A "REVIEW Courses **Overseas** continued RMIT ADVANCED COLLEGE **OF NEW** BRENT AUSTRALIA (London Oerough ol) UNIVERSITY OF PETROLEUM AND MINERALS DEPARTMENT OF APPLIED BIOLOGY DHAHRAN, SAUDI ARABIA **COURSES**' TUTDII/ONOANISERE FOR UNEMI*LOYED SCHOOL LEAVES The University of Polinticum and Minorate, Universe, Snudi Arable, will time Texching positions open for the Academic Year 1977-78, starling t Soptomber 1977. Applications are invited from PRINCIPAL LECTURER IN The Auliority wishes to recruit as cons as possible two Tutor Organisers to bo res-possible for courses for un-**FEATURE** MEDICAL TECHNOLOGY ponsible for courses for un-employed youngstors aged 10 to 18. Ideally the two success-ful applicants will be qualified in clarics/recordsalls duites und will be responsible mainly for basic general sourcalion (literacy, numervey as a cooler studies). The courses are become the responsibility of Kliman Polylochaio, An inter-sets (in Cournelling would be at optantage. Temperaty post to Star August, 1970, in first instance. PHYSICISTS. Applications are invited for the polition of Principat Lecturer in Medical Technology. will be Published on with list or second dogross and teaching experience Applicants should possess on appropriate descess or is madical technology diploms ipreferably of advanced standing, plus extensive experience gained in citemical laboratorias or in teaching or both. Minimum tagutar contract for two yesra, tenewobia. Exdol-leni sziarles end pilowanes, tree eir conditioned hduding. Itas sir transportation to ond trem. Onohran sech two year lour. Attroctive oducettonal sestelatos granta for school-soo depondent childran. Local transportation allowanco in cash each month-All carned income without Saudi loxes. Ten-month duly each year with two-menth vocation pide and possibility of participation in University's ongoing Bummer Programmes with todequets addi-lionsi companestion. Friday, March 4 In addition, applicants thould have some admini-1977 strailve experiance. Apply with complete résumó en ocademic end prolossional bockground. Ilai of relorences, end with copies of degrees/ toelinienielo ineluding personal data, such as relionative at bith and ourtent, homo end ellico addresses, tolophore numbers, tamily atstua juvito'a molden namo, namea ol chridren, ego end Balary scale Surphan F.B. Lecturer I or IS accordios to qualifications and experiencia. 22,469 to 24,377 or 25,679 to 23,403 pive London Weightling Allowance 2402 pius 2313 supplement. Salary \$A23,047 per ennum. REF. NO: 122/21/AS CLOSING DATE: 18/3/77 For further details of lotanding epplicants thould obtain a Schadule of Outles. Iron: the Personnel Stanci, R.M.I.T. Sox 2476V, G.P.O., Melbourne, 3001 Victoria, advertising please contact Mr. G. E. B. Harrison, Gabbilas-Thring Services Lid., Further, dotalla ond opplica-ston forma from the Otrector of Education, Education Oopt., P.O. Box Nos J., Choelenfald ilouse, 9 Park Lano, Wem-bley, Middleson, 1249 7RWa Closing dato for applicationa 11th March, 1977; Broughlon Houes, S, 7 and S, Sackville Sireal, Royal Malbourne Institute of Technology John Ladbrook Piccedilly, Landon W1X 25R A representative of the University will conduct Interviews in London lowers: the and of Fabruary. 01-837 1234